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Technical Services (Shropshire) LTD product catalogue

Technical Services (Shropshire) LTD

product catalogue

Welcome to our new product catalogue... we hope you like it!

Technical Services (Shropshire) Ltd is a UK based global distributor of commercial and professional audio products. We pride ourselves in offering competitive products with first class service.

We supply audio equipment for retail, office, factory & warehouse environments, schools and colleges as well as pubs, clubs, churches, conference venues, sports stadia and marine applications.

Products include amplification, loudspeakers, microphones, mixers and music sources for all public address, voice alarm and background music applications.

We stock products from the worlds leading audio manufacturers including:

We are a leading supplier of assistive hearing products including infra-red, induction loop, disabled refuge & counter audibility systems. Other products include portable systems for audio visual presentation / fitness training in addition to conferencing equipment for councils and business.

Please take a little time to peruse the pages of our catalogue. Hopefully you will find products that will match your requirements. We are constantly adding products to our portfolio, so if you don't see what you are looking for please give us a call; chances are we will be able to help.

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Technical Services index

loudspeakers

4 ceiling
7 wall cabinet
12 pro-sound
16 projectors
18 horn
20 column
22 pendant
24 **ex**-rated
25 voice alarm
27 environmental

amplification & mixing

28 pre-amp / mixers
32 mixer amps
36 low impedance mixer amps
37 slave amps
41 low impedance power amps
43 ancillary
44 powered mixer / systems
45 gymnasium headphone system
46 voice alarm control equipment

conference

47 discussion systems
48 congress systems

portable audio

49 megaphones
49 presentation
50 aerobic / dance
50 accessories
50 lecterns

assistive hearing

51 induction loop
52 loop accessories
53 infra-red
57 soundfield
58 sigtel emergency communication
60 counter audibility

microphones

61 vocal / stage
62 installed
63 wireless
65 in-ear monitoring
66 paging / zone

audio source

67 cd
67 hard drive / mp3
68 tuner

19" rack

69 flat-pack
70 pre-built
71 wall mount

accessories

72 microphone stands
72 loudspeaker brackets
72 connection cables
73 loudspeaker cable
73 microphone cable
73 cable for induction loops
74 connectors
74 volume controls
75 install essentials
76 noise control equipment

BOSCH LHM0606/10

The LHM 0606/10 is a general purpose, 6 watt cost-effective ceiling loudspeaker.

- Suitable for speech and music reproduction
- Flush-mounting in ceiling cavity
- Easy to install
- Simple power setting

driver	6”	sound pressure level	84dB
power handling	9Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	199 x 70.5mm
frequency response	80Hz - 18kHz	weight	620g
tappings	6/3/1.5Watts	colour	off white (RAL9010)

CES AUDIO SLC2060W/B

Miniature flush mount ceiling speaker available in white or black.

- Designed to look like ceiling spotlights
- Same size and fixing mechanism as spotlights
- Remarkable sound quality from small unit
- 2.5” full range driver unit
- 100mm diameter grille
- Designed for unobtrusive installation

driver	2.5”	sound pressure level	86dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	100 x 95.5mm
frequency response	150Hz - 20kHz	weight	550g
tappings	6/3/1.5Watts	colour	white / black

CES AUDIO SLC2060C/G

Miniature flush mount ceiling speaker available in chrome or gold.

- Designed to look like ceiling spotlights
- Same size and fixing mechanism as spotlights
- Remarkable sound quality from small unit
- 2.5” full range driver unit
- 104mm diameter grille
- Designed for unobtrusive installation

driver	2.5”	sound pressure level	86dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	104 x 95.5mm
frequency response	150Hz - 20kHz	weight	550g
tappings	6/3/1.5Watts	colour	chrome / gold

CES AUDIO QCM5061

Compact high quality bridge-mounting ceiling speaker

- Shares generic low profile grille design and low profile as entire QCM range
- Fitted with 5.25” twin cone driver unit. Ideal for general purpose announcements and BGM
- Built-in ceiling tile cut out marker
- Galvanized steel construction

driver	5.25”	sound pressure level	92dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	180mm x 114mm
frequency response	100Hz – 20kHz	weight	1.3kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9003)

CES AUDIO QCM6061

Industry standard high quality bridge-mounting ceiling speaker

- Shares generic low profile grille design and low profile as entire QCM range
- Fitted with 6.5” twin cone driver unit. Ideal for general purpose announcements and BGM
- Built-in ceiling tile cut out marker
- Galvanized steel construction

driver	6.5”	sound pressure level	93dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	230 x 121mm
frequency response	100 - 20kHz	weight	1.4kg
tappings	6/3/1.5/0.75 Watts	colour	white (RAL9003)

CES AUDIO SCS6061

Surface mount / bulkhead speaker

- Designed for use where no ceiling voids are present
- Can be wall-mounted
- Shares grille design with QCM range for uniformity when specifying
- Fitted with 6.5” twin cone driver unit. Ideal for general purpose announcements and BGM
- Aesthetically pleasing spun aluminium housing
- Simple spring-fit system

driver	6.5”	sound pressure level	94dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	266 x 90mm
frequency response	150Hz – 20kHz	weight	1.3kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9003)

CES AUDIO SCP4060

- IP rated to IP55
- 4” Full range polypropylene driver
- Sealed rear enclosure with glanded cable tail
- Stainless steel mounting springs and exterior hardware
- Suitable for non-shedding cleanroom environments
- Suitable for applications where moisture is present
- Finished in RAL9016 brilliant white

driver	4”	sound pressure level	88dB
power handling	6Watts	IP rating	IP55
impedance	100V	dimensions (Ø x d)	140 x 135mm
frequency response	150Hz - 20kHz	weight	960g
tappings	6/3/1.5Watts	colour	white (RAL9016)

APART CMM6

Compact / discreet ceiling-mount speaker

- Modern and very compact (“halogen-spotlight” size) built-in speaker fitted with a 3” full range woofer.
- The loudspeaker is fitted with a high quality 100 Volt transformer, 6 watt with several power tappings
- Moisture-proof Polypropylene driver
- Easy to install, quick mounting system (2 spring-clamps)

driver	3”	sound pressure level	85dB
power handling	6Watts	IP rating	IPX4
impedance	100V	dimensions (Ø x d)	105 x 76mm
frequency response	120Hz – 180kHz	weight	600g
tappings	6/3/1.5Watts	colour	white (RAL9010)

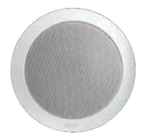
BOSCH LBC3951/11

Compact high quality ceiling speaker.

- Compact, powerful speaker
- Very wide opening angle
- Modern unobtrusive styling
- Installation friendly
- Splash waterproof IPX4
- Complies with all international regulations

driver	4”	sound pressure level	88dB
power handling	6Watts	IP rating	IPX4
impedance	100V	dimensions (Ø x d)	160 x 95mm
frequency response	60Hz - 18kHz	weight	690g
tappings	6/3/1.5/0.75Watts	colour	white (RAL9010)

BOSCH LBC3086/41



6 watt flush-mount ceiling speaker.

- Suitable for speech and music reproduction
- Flush-mounting in ceiling cavity
- Easy to install
- Optional certified firedome available
- Complies with all international regulations
- BS5839p8 compliant (with firedome)
- **Firedome order code LBC3081/02**

driver	8”	sound pressure level	92dB
power handling	10Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	270 x 114mm
frequency response	70Hz - 20kHz	weight	1.9kg
tappings	10/5/2.5/1.25Watts	colour	white (RAL9003)

TOA PC1867

6 watt, 100 volt line flush mount ceiling speaker.

- Flush-mount 12cm speaker
- East installed speaker with spring catch mount
- Push in conector for quick wire hook up
- Bridging terminals for bridging of speaker lines
- Aluminium net grill and baffle

driver	6”	sound pressure level	90dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	180 x 110mm
frequency response	100Hz - 16kHz	weight	650g
tappings	6/3/1.5/0.8Watts	colour	white (RAL9010)

CES AUDIO QCM 8101

- Shares generic low profile grille design and low profile as entire QCM range
- Fitted with 8” twin cone driver unit. Ideal for music applications
- Excellent low frequency response
- Built-in ceiling tile cut out marker
- Galvanized steel construction

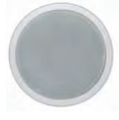
driver	8”	sound pressure level	92dB
power handling	10Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	270 x 114mm
frequency response	70Hz – 20kHz	weight	1.9kg
tappings	10/5/2.5/1.25Watts	colour	white (RAL9003)

CES AUDIO QCM8200C

- Shares generic low profile grille design and low profile as entire QCM range
- Fitted with 8” polypropylene driver and 2.5mm mylar tweeter with 13oz magnet
- Superb for all music applications
- Excellent low frequency response
- Built-in ceiling tile cut out marker
- Galvanized steel construction

driver	8”	sound pressure level	89dB
power handling	20Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	270 x 114mm
frequency response	60Hz – 14kHz	weight	2.6kg
tappings	10/6/4/2Watts	colour	white (RAL9003)

COMMERCIAL AUDIO CAS810



10 watt, 100 volt line economical music quality ceiling speaker.

- Suitable for speech and music reproduction
- Flush-mounting in ceiling cavity
- Easy to install
- Simple power setting

driver	8”	sound pressure level	91db
power handling	10Watts	IP rating	-
impedance	100 volt line	dimensions (Ø x d)	252 x 80mm
frequency response	60Hz - 14kHz	weight	1kg
tappings	10/6/4/2Watts	colour	white

APART CMX20T

20 watt, 8” co-axial high quality music ceiling loudspeaker.

- 100 volt and low impedance operation
- High performance Co-axial driver
- Extended bass response
- Flush fit grille

driver	5.25”	sound pressure level	92dB
power handling	20Watts	IP rating	-
impedance	100v	dimensions (Ø x d)	237 x 170 x 65mm
frequency response	60Hz - 20kHz	weight	1.3kg
tappings	20/10/5/2.5Watts	colour	white

APART CMR20T

20 watt co-axial high performance rectangular ceiling loudspeaker.

- 100 volt impedance operation
- High performance 5.25" +1" Co-axial driver
- Moistureproof treated cone
- Flush fit grille

CMRBBi

- Flush mount ABS backbox for CMR20T

driver	5.25" + 1" co-axial	sound pressure level	92dB
power handling	20Watts	IP rating	-
impedance	100v & 16ohm	dimensions (h x w x d)	237 x 170 x 65 mm
frequency response	60Hz - 20kHz	weight	1.3kg
tappings	2.5/5/10/20Watts	colour	white

APART CM1008

High performance low impedance ceiling speaker.

- 2-way built-in loudspeaker can be used with a standard HiFi or professional amplifier
- The loudspeaker has an 8" enforced woofer and 1" tweeter, making the CM1008 very suitable for the distribution of music at a higher volume level
- The housing is made of high quality ABS. The woofer is made out of polypropylene, making it moisture-proof
- Easy to install, due to its simple, quick mounting system

driver	8" +1" Co-axial driver	sound pressure level	93dB
power handling	100Watts RMS	IP rating	IPX4
impedance	8ohm	dimensions (Ø x d)	244 x 90mm
frequency response	50Hz - 20kHz	weight	1.1kg
tappings	-	colour	white (RAL9010)

APART CMS608

High performance low impedance square ceiling speaker.

- 2-way square flush-mount designer loudspeaker
- High quality 6½" woofer and 1" tweeter
- HiFi-Pro sound quality.Suitable for music and speech
- Moisture proof design

driver	6.5" +1" Co-axial driver	sound pressure level	92dB
power handling	60Watts RMS	IP rating	IPX4
impedance	8ohm	dimensions (h x w x d)	201 x 201 x 75mm
frequency response	60Hz – 20kHz	weight	1.2kg
tappings	-	colour	white (RAL9010)

APART CMS20T

High performance square ceiling speaker c/w transformer.

- 2-way square flush-mount designer loudspeaker
- 100 volt line version of CMS608
- High quality 6 ½" woofer and 1" tweeter
- HiFi-Pro sound quality. Suitable for music and speech
- Moisture proof design

driver	6.5" +1" Co-axial driver	sound pressure level	92dB
power handling	20W @ 100V & 60W 16ohm	IP rating	IPX4
impedance	100volt line and 16ohm	dimensions (h x w x d)	201 x 201 x 75mm
frequency response	60Hz – 20kHz	weight	1.2kg
tappings	20/10/5/2.5Watts	colour	white (RAL9010)

SOUNDTUBE CM500i

Famous Soundtube high performance wide dispersion ceiling speakers. 5.25" Coaxial Flush Mount Ceiling Speaker

- Patented BroadBeam® dispersion technology delivers fuller more area with full-frequency sound
- Installation hardware, including hanging cables, snap-link, fast-adjusting cable clamps and wire ties, is included
- New speed-tap power settings save customers time and money on ordering, inventory tracking, installation and system tuning
- 25, 70.7 and 100 Volt transformer options with voice coil/8Ohm direct
- High-frequency driver protection with automatic reset
- Durable construction, powder-coated grille and terminal weather boot allow for indoor or outdoor installations
- Sonically matched with SoundTube's new CMi (in applications requiring combinations of hanging & mounted speakers

driver	5.25" co-axial	sound pressure level	88.5dB
power handling	33W @ 100v & 75W @ 8ohm	IP rating	-
impedance	100V and 8ohm	dimensions (Ø x d)	271 x 197mm
frequency response	55Hz – 20kHz	weight	3.4kg
tappings	33/17/9/Watts	colour	white (RAL9010)

SOUNDTUBE CMEZII

Famous Soundtube high performance wide dispersion ceiling speakers. 8" Coaxial Flush Mount Ceiling Speaker.

- SnapCam™ four-point, spring-loaded mounting system ensures rapid installation
- Adaptable to ceiling thicknesses ranging from ½" to ¾"
- 7.3 litre steel backcan extends frequency range and delivers high-quality sound
- Integrated backcan with a 6-position tap switch for 25/70.7/100 Volt and voice coil / 8 Ohm bypass
- Includes tile bridge and UL listed flex conduit clamp; optional pre-construction bracket
- UL1480 & 2043 approved

driver	8" co-axial	sound pressure level	93dB
power handling	20W @ 100v & 80W @ 8ohm	IP rating	-
impedance	100V and 8ohm	dimensions (Ø x d)	274mm x 191mm
frequency response	54Hz – 20kHz	weight	3.5kg
tappings	20/10/5/2.5watt	colour	White (RAL9010)

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loudspeakers : ceiling loudspeakers (for music applications)

RCF PL80A

6 watt 100 volt line, flush mounted ceiling speaker designed for distributed sound reproduction in large spaces with low to medium height ceilings.

- Body in RAL 9003 white plastic
- Multi-tapped line transformer included for constant voltage systems
- Twin-cone, wide band, low distortion Ø 200mm driver
- Quick fitting system
- Flame-retardant white plastic body meets UL-94-5VA standards

driver	8" dual cone	sound pressure level	93dB
power handling	6 Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	266 x 100mm
frequency response	40Hz – 18kHz	weight	1.7kg
tappings	6/3/1.5/0.8/0.4Watts	colour	white (RAL9003)

RCF PL81A

10 watt 100 volt line / 40 watt 8 ohm, flush mounted ceiling speaker with 8" driver and coaxial tweeter.
The PL 81/A provides a wider angle of coverage for large spaces with medium to high ceilings. The PL 81/A can support up to 40 W power and, if used without transformer, can generate a sound pressure of 113 dB.

- Multi-tapped line transformer included for constant voltage systems
- Co-axial, wide band, low distortion Ø 200 mm driver
- Quick fitting system
- Flame-retardant white plastic body meets UL-94-5VA standards

driver	8" co-axial	sound pressure level	97dB
power handling	10Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	266 x 100mm
frequency response	40Hz - 20kHz	weight	1.7kg
tappings	10/5/2.5/1.25Watts	colour	white (RAL9003)

CES AUDIO CSB3150

- Foreground and sound re-inforcement ceiling speaker
- Sealed and ported enclosure for extended bass response
- Waveguide dome tweeter for accurate high frequency dispersion
- Discreet rotary power selector
- 100 volt and 8ohm
- Fully rated for air handling spaces

driver	6.5" + 0.75" waveguide dome tweeter	sound pressure level	89dB
power handling	30W @100v /60W @ 8ohm	IP rating	-
impedance	100V and 8ohm	dimensions (Ø x d)	250 x 205mm
frequency response	85Hz - 20kHz	weight	3.12kg
tappings	30/15/7.5/3.75Watts	colour	white (RAL9016)

CES AUDIO CSB6301

- Foreground and sound re-inforcement ceiling speaker
- Sealed and ported enclosure for extended bass response
- Very high quality Co-axial speaker system
- Waveguide dome tweeter for accurate high frequency dispersion
- Discreet rotary power selector
- 100 volt and 8ohm
- Fully rated for air handling spaces

driver	6.5" + 0.75" waveguide dome tweeter	sound pressure level	89dB
power handling	30 W @100v /60W @ 8ohm	IP rating	-
impedance	100V and 8ohm	dimensions (Ø x d)	250 x 205mm
frequency response	75Hz – 20kHz	weight	3.12kg
tappings	30/15/7.5/3.75Watts	colour	white (RAL9016)

...for further ceiling products, please see the pro sound section

loudspeakers : wall cabinets (for general announcements)

CES AUDIO WAS6061 & V

High quality rugged ABS wall cabinet.
V model with built-in volume control.

- Secure fix system (using hex. socket screw)
- Fast installation of face plate
- Built in volume control (V model)
- Rugged ABS with self-extinguishing UL94V0 cabinet
- 6 watt 100 & 70 volt line
- Ideal for background music as well as public address announcements
- Finished in white (RAL 9016)

driver	6" dual cone	sound pressure level	95dB
power handling	6Watts	IP rating	-
impedance	100volt	dimensions (h x w x d)	210 x 210 x 85mm
frequency response	160Hz – 20kHz	weight	1.3kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9016)

CES AUDIO WSP5061

Sleek "Designer" style wall speaker with no visable fixings.

- 5.25" twin cone driver unit for high quality sound reproduction
- Bass reflex design
- Rugged ABS with self-extinguishing UL94V0 cabinet
- 6 watt, 100 & 70 volt line
- Ideal for background music as well as public address announcements

driver	5.25" dual cone	sound pressure level	93dB
power handling	6Watts	IP rating	-
impedance	100volt	dimensions (h x w x d)	332 x 210 x 82mm
frequency response	160Hz – 20kHz	weight	1.46kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9016)

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loudspeakers : wall cabinets (for general announcements)

BOSCH LB1UW06 (L) & (D)

General-purpose, cost-effective 100volt line loudspeaker for indoor use.

- Robust, solid MDF (medium density fiber board) enclosure covered with durable, easy-to-clean vinyl
- ABS front covered with fine woven cloth in matching colour
- Keyhole wall mounting
- Angled front baffle for better sound
- Finished in black D or white L

driver	5.25"	sound pressure level	91dB
power handling	6Watts	IP rating	-
impedance	100v	dimensions (h x w x d)	243 x 151 x 141/119mm
frequency response	180Hz – 20kHz	weight	900g
tappings	6/3/1.5Watts	colour	white (L) (RAL9010) – black (D)(RAL9004)

BOSCH LB1UW06Vx (L) & (D)

General-purpose, cost-effective 100volt line loudspeaker with volume control for indoor use.

- C/W Volume control
- Robust, solid MDF (medium density fiber board) enclosure covered with durable, easy-to-clean vinyl
- ABS front covered with fine woven cloth in matching colour
- Keyhole wall mounting
- Angled front baffle for better sound
- Finished in black D or white L

driver	5.25"	sound pressure level	91dB
power handling	6Watts	IP rating	-
impedance	100v	dimensions (h x w x d)	243 x 151 x 141/119mm
frequency response	180Hz – 20kHz	weight	900g
tappings	6/3/1.5Watts	colour	white (L) (RAL9010) – black (D) (RAL9004)

BOSCH LB1CW06 (L) & (D)

Corner-mounting general-purpose, cost-effective 100 volt line loudspeaker for indoor use.

- Corner-mounting
- Robust, solid MDF (medium density fiber board) enclosure covered with durable, easy-to-clean vinyl
- ABS front covered with fine woven cloth in matching colour
- Mounting brackets supplied
- Finished in black D or white L

driver	5.25"	sound pressure level	90dB
power handling	6Watts	IP rating	-
impedance	100v	dimensions (h x w x d)	240 x 151 x 138mm
frequency response	180Hz – 20kHz	weight	800g
tappings	6/3/1.5Watts	colour	white (RAL9010/RAL7044) – black (RAL9004)

APART SMP5T

- Rectangular 6 watt, 100 volt ABS cabinet speaker
- 5.25" dual paper cone woofer
- Clear sound reproduction, suitable for BGM & microphone calls
- Power tappings at 1.5, 3 & 6 watts
- Easy, 2 stage installation

driver	5.25" dual cone	sound pressure level	90dB
power handling	6Watts	IP rating	IP44
impedance	100v	dimensions (h x w x d)	223 x 168 x 96mm
frequency response	70Hz – 18kHz	weight	1.7kg
tappings	6/3/1.5Watts	colour	white

APART SMP20T

- Rectangular ABS 2 way cabinet speaker
- 5.25" woofer with moisture-proof with paper cone
- 20 watt, 100 volt line / 40 watt, 16 ohm
- Power tappings at 2.5, 5, 10 & 20 watts
- Easy, 2 stage installation

driver	5.25" woofer and 1" tweeter	sound pressure level	92dB
power handling	20Watts	IP rating	IP44
impedance	100V & 16ohm	dimensions (h x w x d)	223 x 168 x 96mm
frequency response	60Hz – 20kHz	weight	1.9kg
tappings	20/10/5/2.5 watts	colour	white

loudspeakers : wall cabinets (for music applications)

APART SDQ3T

Compact and discreet design, 16 ohm / 100 volt line loudspeaker with overload protection. Supplied with a wall mounting bracket and available in black, white or silver.

- 2-way HiFi, ABS sealed box
- 3.2" driver
- Auto-Reset Guard Protection system
- Ideal for background music/ retail applications
- Supplied as pair

driver	3.2"	sound pressure level	86dB
power handling	35Watts	IP rating	IP50
impedance	100V & 16Ohm	dimensions (h x w x d)	152 x 105 x 104mm
frequency response	90Hz - 20kHz	weight	850g
tappings	6/3/1.5Watts	colour	white / black / silver

APART SDQ5T

Discreet design, 16 ohm / 100 volt line loudspeaker with overload protection. Supplied with a wall mounting bracket and available in black, white or silver.

- 2-way HiFi, ABS sealed box
- 5.25" driver
- Auto-Reset Guard Protection system
- Ideal for background music/ retail applications
- Supplied as pair

driver	5.25"	sound pressure level	90dB
power handling	70Watts	IP rating	IP50
impedance	100V & 16ohm	dimensions (h x w x d)	244 x 179 x 154mm
frequency response	70Hz – 20kHz	weight	2.35kg
tappings	30/15/6/3Watts	colour	white / black / silver

loudspeakers : wall cabinets (for music applications)

APART SDQ8T

Powerful 16 ohm / 100 volt line loudspeaker with overload protection. Supplied with a wall mounting bracket and available in black, white or silver.

- 2-way HiFi, ABS bass reflex cabinet
- 8" driver with 1.2" neodynium tweeter
- Auto-Reset Guard Protection system
- Ideal for mid and foreground music applications
- Supplied as pair

driver	8"	sound pressure level (1w/1m)	94dB
power handling	140Watts	IP rating	IP40
impedance	100v	dimensions (h x w x d)	375 x 280 x 240mm
frequency response	45Hz - 20kHz	weight	5.45kg
tappings	60/30/15/6Watts	colour	white / black

APART MASK4T

Dual impedance compact BGM cabinet. The APart MASK BGM loudspeakers have been designed for the contractor market and have a stylish and innovative design. Can be used as standalone or as part of a sub woofer set.

- 2-way, ABS sealed cabinet
- 100volt and 16ohm
- Woofer : 4.2" HD Type
- Tweeter : 1" HD silk dome on Varithroat horn
- Intelli-mount bracket
- Auto-Reset 3-step Protection
- IP64 for outdoor/weather-resitant applications

driver	4.2"	sound pressure level	89dB
power handling	50Watts	IP rating	IP64
impedance	100V & 16ohm	dimensions (h x w x d)	223 x 129 x 130mm
frequency response	80Hz – 20kHz	weight	2kg
tappings	20/10/5/2.5Watts	colour	white / black

APART MASK6 & 6T

High quality 6" bass/mid driver with 8ohm operation. The APart MASK BGM loudspeakers have been designed for the contractor market and have a stylish and innovative design. Can be used as standalone or as part of a sub woofer set.

- 2-way, ABS sealed cabinet
- 8ohm low impedance operation
- Woofer : 6.5" HD Type
- Tweeter : 1" HD silk dome on Varithroat horn
- Intelli-mount bracket
- Auto-Reset 3-step Protection
- IP64 for outdoor/weather-resitant applications
- 100volt line and 16ohm version (MASK 6T)

driver	6.5"	sound pressure level	92dB
power handling	150Watts	IP rating	IP64
impedance	8ohm	dimensions (h x w x d)	315 x 175 x 195mm
frequency response	65Hz – 20kHz	weight	
tappings	60/30/15/6Watts	MASK6	3.4kg
		MASK6T	3.95kg
		colour	white / black

APART MASK8

The Apart MASK8 has been designed for the contractor market, from background to dance level music. The wooden delta cabinet gives the MASK8 a unique yet inconspicuous look.

- Powerful 8" coated woofer
- Ferro-fluid cooled dome tweeter with wave guide horn
- 8ohm low impedance operation
- Almost studio monitor quality
- Can be used full-range, or with subs (see below)
- Auto-Reset 3-step Protection
- Supplied with metal 'U' bracket
- Includes thread-mounts for flying / rigging

driver	8"	sound pressure level	93dB
power handling	200Watts	IP rating	IP40
impedance	8ohm	dimensions (h x w x d)	411 x 250 x 250mm
frequency response	60Hz – 20kHz	weight	8.1kg
tappings	-	colour	white / black

APART SUB165

High quality active subwoofer giving incredible performance for its diminutive size.

- 8" Driver
- Line input and high level speaker input (from other amp)
- Built-in 100 watt amplifier
- Speaker outputs for satellite speakers
- Variable cross-over
- Phase switch

driver	8"	sound pressure level	89dB
power handling	100Watts RMS	IP rating	-
impedance	Built-in amplifier	dimensions (h x w x d)	362 x 261 x 405mm
frequency response	30Hz – 180kHz	weight	1.27kg
tappings	-	colour	black

APART SUB2200

Compact high quality passive bandpass subwoofer with 10" dual voice coil woofer.

- Compact for easy installation
- 10" dual voice coil driver
- High bandpass filter (150Hz) built-in
- 2 x 4ohm inputs
- Auto reset protection built-in
- Ideal for use with MASK6 speakers

driver	10"	sound pressure level	95dB
power handling	2 x 150Watts	IP rating	-
impedance	2 x 4ohm	dimensions (h x w x d)	619 x 298 x 385mm
frequency response	150Hz – 45kHz	weight	20kg
tappings	-	colour	black

APART SUB2400

Tandem Driven passive bandpass subwoofer for incredible deep and loud kick-bass sound.

- Two band pass chambers both with 10" dual coil drivers
- Push/pull technology for compact yet punchy bass
- 4 or 16ohm operation
- Compact for easy installation
- Ideal for MASK 6 or 8 speakers

driver	2 x 10"	sound pressure level	99dB
power handling	2 x 300Watts	IP rating	-
impedance	-	dimensions (h x w x d)	700 x 345 x 352mm
frequency response	150Hz – 45kHz	weight	30kg
tappings	-	colour	white / black

COMMERCIAL AUDIO CAT3150

Compact elegant ABS music speaker ideal for background music in bars/shops etc.

- Attractive trapezoidal cabinet for improved directivity and corner mounting
- 2 way bass reflex design
- Front ported for wall mounting
- 15 watts 100 volt line / 8 ohm
- Constructed from high impact ABS
- Multi impedance settings via rotary control
- 'U' mounting bracket included

driver	3.5"	sound pressure level	90dB
power handling	15Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	135 x 200 x 110mm
frequency response	130Hz – 20kHz	weight	1.8kg
tappings	15/7.5/3.75/1.9Watts	colour	white (RAL9016) - black (RAL9005)

CES AUDIO CAL5300U & WU

Compact yet powerful cabinet loudspeaker. Anything from BGM to foreground music. Used in bars, restaurants, churches etc. Will perform as well as the big manufacturers expensive offerings.

- Attractive trapezoidal cabinet design for improved directivity and versatile mounting
- Very high quality 2-way speaker system with 5" polypropylene bass / mid cone & 10-ounce magnet + mylar laminate dome tweeter
- 30w transformer & Powerful 8Ω operation
- U mount bracket included as a standard accessory

driver	5"	sound pressure level	89dB
power handling	30Watts	IP rating	-
impedance	100V & 8ohm	dimensions (h x w x d)	189 x 241 x 175mm
frequency response	75Hz – 25kHz	weight	2.66kg
tappings	30/15/7.5/3.75Watts	colour	black (RAL 9005)U or brilliant white (RAL 9016)WU

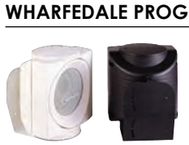
CES AUDIO WSP4200

2 way high power "Designer" style wall speaker with no visable fixings.

- High quality 2 way 4" Driver + 1" tweeter
- Bass reflex design
- Rugged ABS with self-extinguishing UL94V0 cabinet
- 20 watt, 100 & 70 volt line
- Ideal for music applications as well as public address announcements

driver	4"	sound pressure level	86dB
power handling	20Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	332 x 210 x 82mm
frequency response	100Hz – 25kHz	weight	1.95kg
tappings	20/10/5/2.5Watts	colour	white (RAL9016)

WHARFEDALE PROGRAMME1 &1LT



Iconic compact cabinet speaker for background music applications.

- Heavily damped mineral loaded polypropylene driver
- Overload protected
- Dual cone driver with copper clad magnet for optimum performance
- Supplied with mounting hardware
- 100 volt line version (1LT)

driver	5"	sound pressure level	87dB
power Handling	30Watts	IP rating	-
impedance	8ohm (PG1) 100v (LT)	dimensions (h x w x d)	140 x 160 x 130mm
frequency Response	100Hz – 15kHz	weight programme1 programme1LT	 1.1kg 1.4kg
tappings (1LT version)	10/5/2.5/0.6Watts	colour	white / black

WHARFEDALE PROGRAMME30D & 30DT

Based on famous Wharfedale Diamond. Designed for commercial applications.

- MDF Cabinet designed for smooth extended bass
- T.O.P® Tweeter overload protection
- Supplied with mounting bracket
- Supplied as pair
- 100 volt line version (30DT)

driver	5" + 1"	sound pressure level	86dB
power handling	100Watts	IP rating	-
impedance	8ohm (PG30) 100v (DT)	dimensions (h x w x d)	242 x 186 x 203mm
frequency response	50Hz – 20kHz	weight programme30D programme30DT	 4.2kg 4.6kg
tappings (30DT)	10/5/2.5/1.25Watts	colour	black ash

WHARFEDALE PROGRAMME50 & 50T

The Programme 50 installation loudspeakers are two-way ported, 80 watt, 8 ohm loudspeakers with 5.5" woofer & a 3/4" titanium dome tweeter, providing a wide frequency range coupled with high power handling in an attractively styled, acoustically efficient enclosure.

- Trapezoidal enclosures for compact arrays and broad coverage angles
- Protech! High Frequency Driver Overload Protection
- Bracket and built in rigging points for horizontal or vertical mounting
- 100 volt line version available as Programme50T.

driver	5.5" woofer + ¾" tweeter	sound pressure level	86dB
power handling	80Watts	IP rating	-
impedance	8ohms (PG50) 100v (50T)	dimensions (h x w x d)	305.5 x 196 x 203mm
frequency response	90Hz – 20kHz	weight programme 50 programme 50T	 7.5kg 9kg
tappings (50T version)	60/30/15/7.5watts	colour	white / black

WHARFEDALE PROGRAMME52 & 52T

The Programme 52 installation loudspeakers are three-way ported, 100 watt, 8 ohm loudspeaker with 2 x 5.5" woofers & a 3/4" titanium dome tweeter, providing a wide frequency range coupled with high power handling in an attractively styled, acoustically efficient enclosure.

- Trapezoidal enclosures for compact arrays and broad coverage angles
- Protech! High Frequency Driver Overload Protection
- Music / voice tone control switch
- Bracket and built in rigging points for horizontal or vertical mounting
- 100 volt line version available as Programme52T.

driver	2 x 5.5" woofer + ¾" tweeter	sound pressure level	88dB
power handling	100Watts	IP rating	-
impedance	8ohms (PG52) 100v (52T)	dimensions (h x w x d)	500 x 196 x 203mm
frequency response	60Hz – 20kHz	weight programme 52 programme 52T	 10.5kg 12.5kg
tappings (52T version)	80/40/20/10watts	colour	white / black

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loudspeakers : wall cabinets (for music applications)

WHARFEDALE PROGRAMME60 & 60T

The Programme 60 installation loudspeakers are three-way ported, 150 watt, 8 ohm loudspeakers with 2x 6.5" woofers & a 1" titanium compression driver, providing a wide frequency range coupled with high power handling in an attractively styled, acoustically efficient enclosure.

- Black or white painted finish
- High quality, elegant & versatile solution for a variety of applications
- Trapezoidal enclosures for compact arrays and broad coverage angles
- Protech! High Frequency Driver Overload Protection
- Music / voice tone control switch
- Bracket and built in rigging points for horizontal or vertical mounting
- 100 volt line version available as Programme60T

driver	2 x 6.5" woofer + 1" compression driver	sound pressure level	90dB
power handling	150Watts	IP rating	-
impedance	8ohms (PG60) 100v (60T)	dimensions (h x w x d)	674 x 246 x 300mm
frequency response	50Hz – 20kHz	weight programme 60 programme 60T	 13.5kg 15.9kg
tappings (60T version)	120/60/30/15watts	colour	white / black

WHARFEDALE PROGRAMME80 & 80T

The Programme 80 is a high performance 150 watt, 8 ohm loudspeaker system, delivering excellent full range musical response from a compact enclosure. Smooth, extended frequency response combines with wide dynamic capabilities and low distortion to provide high quality acoustic performance for foreground music systems, moderate level sound reinforcement and music playback systems. The Programme 80 features one 8 inch woofer and a 1 inch titanium driver with a 60 x 60 horn.

- High output power
- Low distortion
- HF driver protection
- Heavy duty foam backed grille
- Speakon and barrier strip connections
- Extensive mounting points
- Trapezoid compact line array
- Brackets built into M8 mounting points
- 100 volt line version available as Programme80T

driver	1x8" woofer + 1" compression driver	sound pressure level	90dB
power handling	150Watts	IP rating	-
impedance	8ohms (PG80) 100v (80T)	dimensions (h x w x d)	470 x 260x 300mm
frequency response	50Hz – 20kHz	weight programme 60 programme 60T	 11.5kg 13.9kg
tappings (80T version)	120/60/30/15watts	colour	white / black

RCF MQ30P

- 3" woofer and a coaxial dome tweeter ensure a wide angle of coverage
- Faithfully reproduces announcements and provides a good music background
- Combined with a subwoofer, the MQ30P allows high quality music distribution with high output levels
- Designed to adhere closely to the wall or ceiling and thus it has a limited protrusion
- The built-in hinged support makes the speaker easy to install and orient in any direction

driver	3.75" with co-axial soft dome tweeter	sound pressure level	88dB
power handling	12w 100v / 24w @16ohm	IP rating	-
impedance	100V & 16ohm	dimensions (h x w x d)	100 x 100 x 186mm
frequency response	160Hz – 20kHz	weight	1.1kg
tappings	12/6/3/1.5watts	colour	white / black / silver

RCF MONITOR33T

20 watt 100 volt line / 40 watt 4 ohm, compact reflex cabinet loudspeaker

- Built-in, multi-tap constant voltage transformer
- Built-in, low-inductance passive crossover
- Lightweight, UV/weather resistant, high density polystyrene, trapezoidal shaped enclosure for multiple applications and minimum visual intrusion
- Integrated mounting points for use with optional mounting hardware
- Articulated surface mount hardware included

driver	4.75" with 0.5" Tweeter	sound pressure level	88dB
power handling	20w 100v / 40w @ 4ohm	IP rating	IP44
impedance	100V and 4ohm	dimensions (h x w x d)	216 x 154 x 136mm
frequency response	100Hz – 20kHz	weight	2.2kg
tappings	20/10/5/2.5/1watts	colour	white / black

RCF MONITOR44T

60 watt 100 volt line 2 way cabinet speaker with bass reflex.

- 5" high-efficiency carbon fiber woofer CD horn loaded, 0.5" dome tweeter
- Built-in, multi-tap constant voltage transformer
- Built-in, low-inductance passive crossover with high-frequency dynamic protection
- Lightweight, UV/weather resistant, trapezoidal shaped enclosure for multiple applications and minimum visual intrusion
- Integrated mounting points for use with optional mounting hardware
- Articulated surface mount hardware included

driver	5" carbon fibre with 0.5" Tweeter	sound pressure level	89dB
power handling	30w 100v / 60w @ 4ohm	IP rating	IP44
impedance	100V and 4ohm	dimensions (h x w x d)	262 x 182 x 167mm
frequency response	80Hz – 20kHz	weight	3.6kg
tappings	30/20/10/5/1 watts	colour	white / black

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SOUNDTUBE SM400i

4" full-range wide dispersion surface-mount speaker

- Tool-free Stealth™ u-bracket mounting system provides fast & secure installation included with each SM400i speaker
- Vertical and horizontal pivoting offer precision aiming for indoor & outdoor applications
- New speed-tap power settings save customers time and money on ordering, inventory tracking, installation and system tuning
- 25, 70.7 and 100 Volt transformer options with coice coil/8 Ohm direct
- High-frequency driver protection with automatic reset
- Durable construction, powder-coated grille, Weatherized components and terminal weather boot allow for indoor or outdoor installations
- Optional port plugs provided for added weather resistance

driver	4" + 1" Convex BroadBeam® Waveguide tweeter	sound pressure level	88.3dB
power handling	20Watts 100volt	IP rating	-
impedance	100volt & 8Ohms	dimensions (Ø x d)	470 x 260x 300mm
frequency response	92Hz – 20kHz	weight	11.5kg
tappings	20watt single tap	colour	white / black

SOUNDTUBE SM500i

SM500i 5.25" coaxial wide dispesion surface mount speaker.

- Patented BroadBeam® dispersion technology allows fewer speakers to cover more area with full-frequency sound.
- Proprietary SpeedLever™ captured-ball mounting system for precision aiming and rapid installation.
- New speed-tap power settings save customers time and money on ordering, inventory tracking, installation and system tuning.
- 25, 70.7 and 100 Volt transformer options with voice coil/8 Ohm direct.
- High-frequency driver protection with automatic reset.
- Durable construction, powder-coated grille and terminal weather boot allow for indoor or outdoor installations.
- Sonically matched with SoundTube's new CMi (in ceiling) and RSi (open ceiling) speakers for applications requiring combinations of hanging and mounted speakers.
- May be used in conjunction with RS801i Subwoofer for applications where additional bass is required.

driver	5.25" + 1" Convex BroadBeam® Waveguide tweeter	sound pressure level	88.5dB
power handling	33w 100v & 75w 8ohm	IP rating	-
impedance	100volt & 8Ohms	dimensions (h x w x d)	316 x 216 x 305mm
frequency response	75Hz – 20kHz	weight	4.3kg
tappings	33/17/9/6watt	colour	white / black

ELECTRO-VOICE SX80BE

The Industry Standard ultracompact two-way 8-inch system.

- 175 watt RMS 700 watts peak power handling
- EV DH2005 pure titanium compression driver
- 90° x 65° constant-directivity high-frequency horn
- Paintable, polystyrene enclosure
- Neutrik Speakon® connector
- OmniMount® Series 75 mounting hardware
- Available in black or white

driver	8"	sound pressure level	92dB
power handling	175Watts	IP rating	-
impedance	8ohm	dimensions (h x w x d)	400 x 292 x 222mm
frequency response	65Hz – 20kHz	weight	8.2kg
tappings	-	colour	white / black

ELECTRO-VOICE SX100-E

The Industry Standard compact 12-inch two-way system

- 200 watts continuous, 800 watts peak power handling
- 65° x 65° Constant-directivity horn
- Can be used horizontally or vertically with identical coverage
- Durable polypropylene enclosure
- Ring-Mode Decoupling delivers smooth, accurate vocals, instruments and mids
- Built-in stand mount and inserts for safe suspension, arraying and use as floor monitor
- Available in black or white

driver	12"	sound pressure level	98dB
power handling	200Watts	IP rating	-
impedance	8ohm	dimensions (h x w x d)	586 x 429 x 312mm
frequency response	80Hz – 25kHz	weight	14.5kg
tappings	-	colour	white / black

ELECTRO-VOICE SX300E

The world's best lightweight, high-power speaker system.

- 300 watts continuous, 1,200 watt peak power handling
- Delivers over 125 dB continuous, 131 dB peaks (1 w / 1 m) at full power
- 65° x 65° Constant-directivity horn allows use vertically or horizontally
- Delivers unequalled vocals and pure, accurate instruments and mids
- Rugged, durable polypropylene enclosure
- Ring-Mode Decoupling delivers smooth, accurate vocals, instruments and mids
- Built-in stand mount and inserts for safe suspension, arraying and use as floor monitor
- Available in black or white

driver	12"	sound pressure level	100dB
power handling	300Watts	IP rating	-
impedance	8ohm	dimensions (h x w x d)	586 x 429 x 312mm
frequency response	80Hz – 25kHz	weight	17.7kg
tappings	-	colour	white / black

ELECTRO-VOICE ZX1

The ZX1 high-tech lightweight enclosure has been engineered to provide maximum rigidity and acoustic performance for performers on the move.

- Velocity compensated port design
- Exceptional low frequency response
- Weatherized treated cone
- Full-bandwidth overload protection

driver	8"	sound pressure level	94dB
power handling	200Watts	IP rating	-
impedance	8Ohms	dimensions (h x w x d)	141 x 282 x 263mm
frequency response	48Hz – 20kHz	weight	8.4kg
tappings	-	colour	black

ELECTRO-VOICE ZX4

The rugged enclosure of the Electro-Voice® Zx4 is perfect for portable, main mix and monitor applications, while the stylish design gives it appeal in even the trendiest of environments. At only 20.2 kg, the lightweight Zx4 allows ease of transport and set up.

- Tremendous intelligibility and pattern control
- Tight, low bass and outstanding power handling capacity
- Pure titanium diaphragm
- Retractable monitor feet

driver	15"	sound pressure level	100dB
power handling	400Watts	IP rating	-
impedance	8Ohms	dimensions (h x w x d)	686 x 445 x 406mm
frequency response	42Hz – 20kHz	weight	20.2kg
tappings	-	colour	black

ELECTRO-VOICE ZX5

The Zx5 fits a variety of applications: installations of individual speakers or clusters in entertainment, cultural or religious venues, as well as on stages with bands, musicians and P.A. rental companies.

- Elegant high-impact composite enclosure
- 2-inch neodymium ND2 compression driver
- 600 watts long-term power handling
- Two adjustable monitor angles
- Ten built-in rigging and suspension points

driver	15"	sound pressure level	98dB
power handling	600Watts	IP rating	-
impedance	8ohms	dimensions (h x w x d)	686 x 445 x 406mm
frequency response	41Hz – 20kHz	weight	21.3kg
tappings	-	colour	white / black

ELECTRO-VOICE C4.2

EVID Series 4" Two Way Ceiling Speaker System. Perfect for conventional rooms. Excellent bandwidth in an esthetically, unobtrusive installation profile. Its compact design fits in tight areas.

- Fully rated for use in air handling spaces
- Waveguide coupled titanium coated dome tweeter
- Easy 3-point mounting system for quick installations
- Complete with mounting support ring and tile rails

driver	4"	sound pressure level	86dB
power handling	50Watts	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	181 x 176
frequency response	65Hz – 20kHz	weight	2.7kg
tappings	1.88/3.75/7.5/15/30Watts	colour	white

ELECTRO-VOICE C8.2

EVID Series 8" Two Way Ceiling Speaker System. Never before has a ceiling speaker system delivered such a full range punch.

- Fully rated for use in air handling spaces
- Waveguide coupled titanium coated dome tweeter
- 8" woofer providing amazing bass response
- Easy 4-point mounting system for quick installations
- Complete with mounting support ring and tile rails

driver	8"	sound pressure level	91dB
power handling	100W	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	270 x 255mm
frequency response	50Hz – 20kHz	weight	5kg
tappings	3.75/7.5/15/30Watts	colour	white

ELECTRO-VOICE C8.2LP

Low profile version of C8.2.

- Fully rated for use in air handling spaces
- Low profile rear enclosure for space restricted installations
- Waveguide coupled titanium coated dome tweeter
- 8" woofer providing amazing bass response
- Easy 4-point mounting system for quick installations
- Complete with mounting support ring and tile rails

driver	8"	sound pressure level	91dB
power handling	100W	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	270 x 178mm
frequency response	50Hz – 20kHz	weight	5kg
tappings	3.75/7.5/15/30Watts	colour	white

ELECTRO-VOICE C10.1

Compact and Powerful Ceiling Subwoofer for use with EV ceiling and Evid ranges

- Large 10" subwoofer in a tuned high performance enclosure
- Low frequency performance down to 45Hz
- One of the only quick mount ceiling TRUE subwoofers available on the market
- Secure 4-point easy mounting system

driver	10"	sound pressure level	94dB
power handling	150Watts	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	320 x 303mm
frequency response	45Hz – 180Hz	weight	7kg
tappings	15/30/60Watts	colour	white

ELECTRO-VOICE EVID3.2 & 3.2T

Iconic EV design. Ideal for background music as standalone system in retail/restaurants etc. Can be used with C10.1 or Evid12.1 subs for extended bass performance.

- Dual 3.5-inch LF drivers
- 3/4-inch Ti direct radiator tweeter
- Includes Stong Arm® mounting bracket
- Supplied as a pair
- 100 volt line version (EVID3.2T)

driver	2 x 3.5"	sound pressure level	87dB
power handling	150Watts	IP rating	IP34
impedance	8ohm (3.2) 100V (3.2T)	dimensions (h x w x d)	234 x 130 x 165mm
frequency response	85Hz – 20kHz	weight	
tappings (3.2T version)	10Watts	EVID3.2	1.5kg
		EVID3.2T	1.75kg
		colour	white / black

ELECTRO-VOICE EVID4.2 & 4.2T

Iconic EV design. Ideal for background/ midground music as standalone system in retail/restaurants/bars etc. Can be used with C10.1 or Evid12.1 subs for extended bass performance.

- Dual 4-inch woofers
- 1-inch waveguide coupled titanium tweeter
- Powerful standalone performance
- Includes Stong Arm® mounting bracket
- Supplied as a pair
- 100 volt line version (EVID4.2T)

driver	2 x 4"	sound pressure level	89dB
power handling	200Watts	IP rating	IP34
impedance	8ohm (4.2) 100V (4.2T)	dimensions (h x w x d)	234 x 127 x 165mm
frequency response	65Hz – 20kHz	weight	
tappings (4.2T version)	7.5/15/30Watts	EVID4.2	3.9kg
		EVID4.2T	3.9kg
		colour	white / black

ELECTRO-VOICE EVID6.2 & 6.2T

Iconic EV design perfect for applications that require exemplary audio and the capability to fill large areas with sound. Outstanding, full bass output ideal for shopping malls, stadiums, airports, etc.

- Dual 6-inch LF drivers
- 1-inch Ti/waveguide tweeter
- Delivers crisp and clean program for the utmost in listening experience
- Includes Stong Arm® mounting bracket
- Supplied as a pair
- 100 volt line version (EVID6.2T)

driver	2 x 6.5"	sound pressure level	94dB
power handling	300Watts	IP rating	IP34
impedance	8ohm (6.2) 100V (6.2T)	dimensions (h x w x d)	419 x 228 x 298mm
frequency response	62Hz – 20kHz	weight	
tappings (6.2T version)	15/30/60Watts	EVID6.2	5.3kg
		EVID6.2T	5.3kg
		colour	white / black

ELECTRO-VOICE EVID12.1

Highly compact design sub augments and extends the low frequency response of any EV Ceiling or Evid models.

- Dual voice coils to handle both channels of a stereo pair
- Built-in crossovers
- Can handle up to 4 x satellite speakers per channel
- 350 watts long term handling
- Trapezoidal design for easy installation
- Available in black

driver	12"	sound pressure level	106dB
power handling	2 x 175Watts	IP rating	-
impedance	8Ohms	dimensions (h x w x d)	412 x 584 x 305mm
frequency response	40Hz – 180Hz	weight	18.1kg
tappings	-	colour	white / black

WHARFEDALE SERIES2190

Compact pro-sound cabinet. Ideal for Bar/pub environments.

- Baker Effect twin 90 degree offset tweeters for improved stereo image
- 200 watt program power handling
- Ferrofluid cooled 25mm titanium dome HF unit
- Auto-resetting thermal overload protection
- Supplied with two steel mounting brackets
- Supplied as a pair
- Available in black

driver	8"	sound pressure level	90dB
power handling	200Watts	IP rating	-
impedance	8Ohms	dimensions (h x w x d)	270 x 445 x 220mm
frequency response	50Hz – 20kHz	weight	9.5kg
tappings	-	colour	black

WHARFEDALE SERIES3190

High Power pro-sound cabinet. Ideal for Bar/pub/retail environments.

- 'Baker Effect' twin 90 degree offset tweeters for improved stereo image
- 350 watt program power handling
- Ferrofluid cooled 25mm titanium dome HF unit
- Auto-resetting thermal overload protection
- Supplied with two steel mounting brackets.
- Supplied as a pair.
- Available in black

driver	8"	sound pressure level	93dB
power handling	350Watts	IP rating	-
impedance	4Ohms	dimensions (h x w x d)	270 x 445 x 315mm
frequency response	40Hz – 20kHz	weight	15.4kg
tappings	-	colour	black

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loudspeakers : pro-sound

WHARFEDALE EVPS10

Durable compact 2 way cabinet, ideal for bands, live events.

- 10" Bass/Mid driver
- 1" compression driver
- 110 watts continuous power handling
- Driver overload protection
- Road tough industrial carpet finish
- Sophisticated crossover design for smooth frequency and power response

driver	10"	sound pressure level	95dB
power handling	110Watts	IP rating	-
impedance	8ohms	dimensions (h x w x d)	515 x 375 x 330mm
frequency response	70Hz – 20kHz	weight	14.8kg
tappings	-	colour	black

WHARFEDALE EVPX12

Highly durable 2 way cabinet, ideal for bands, live events.

- 12" Bass/Mid driver
- 1" compression driver
- 250 watts continuous power handling
- Driver overload protection
- Road tough industrial carpet finish
- Sophisticated crossover design for smooth frequency and power response

driver	12"	sound pressure level	98dB
power handling	250Watts	IP rating	-
impedance	8Ohms	dimensions (h x w x d)	590 x 430 x 370
frequency response	55Hz – 20kHz	weight	19.3kg
tappings	-	colour	black

WHARFEDALE EVPX15

Highly durable 2 way cabinet, ideal for bands, live events.

- 15" Bass/Mid driver
- 1" compression driver
- 300 watts continuous power handling
- Driver overload protection
- Road tough industrial carpet finish
- Sophisticated crossover design for smooth frequency and power response

driver	15"	sound pressure level	98dB
power handling	300Watts	IP rating	-
impedance	8Ohms	dimensions (h x w x d)	675 x 460 x 450
frequency response	45Hz – 20kHz	weight	25.95kg
tappings	-	colour	black

RCF MQ50

Professional compact cabinet loudspeaker, designed for high quality audio installations such as bars, restaurants, places of worship, retail etc.

- Two-way compact monitor speaker
- Dual impedance
- 60 watt RMS at 16ohm bypass
- Made from high density polystyrene
- Includes hinged support bracket
- Innovative first fix cabling to bracket

driver	5" + 1"	sound pressure level	110dB
power handling	30Watts	IP rating	-
impedance	100V and 16ohm	dimensions (h x w x d)	245 x 165 x 175
frequency response	80Hz – 20kHz	weight	25.95kg
tappings	2.5/5/10/20/30Watts	colour	white / black / silver

RCF MSW8

300 watt 8 ohm, 12" Subwoofer for Monitor 88 Speaker Systems.

- High efficiency "Dual Load Reflex" configuration
- Considerably extended low range frequency response and extremely low distortion
- Crossover bypass switch

driver	12"	sound pressure level	93dB
power handling	300Watts RMS	IP rating	-
impedance	8Ohms	dimensions (h x w x d)	800 x 290 x 508mm
frequency response	35Hz – 125Hz	weight	36kg
tappings	-	colour	black

D.A.S. ARCO 4 & 4T

Molded high-impact ABS enclosures are lightweight, rugged and look good The Arco 4 incorporates a 4" woofer with weather resistant polypropylene cone. High frequency reproduction is handled by a 19mm neodymium dome tweeter for brilliant highs. An Overload Safety Circuit protects the speakers from damage in case of overpowering. The "T" versions include a multi-tap transformer with 5 - 10 - 15W settings.

- Adjustable ceiling/wall mount is included with each unit reducing total cost
- "T" versions are equipped with factory-installed multi-tap transformers
- Optional "U" brackets and accessories allow for multiple configurations
- Cabinets include 4 M6 rigging points and a safety cable attachment point

driver	4" woofer 19mm tweeter
power handling	100Watts RMS
impedance	8Ohms Arco 4 and 100volt Arco4T
frequency response	72Hz – 20kHz
tappings	15/10/5watts
sound pressure level	86dB
IP rating	-
dimensions (h x w x d)	210 x 140 x 140mm
weight	1.6kg
colour	white / black

ARCO 24 & 24T

The Arco 24 incorporates two 4" woofers with weather resistant polypropylene cones. High frequency reproduction is handled by a 25 mm neodymium dome tweeter for brilliant highs and balanced performance. An Overload Safety Circuit protects the speakers from damage in case of overpowering. The "T" versions include a multi-tap transformer with 10-20-30 W settings.

- Small size and ready-to-paint exterior makes matching any decor easy
- Adjustable ceiling/wall mount is included with each unit reducing total cost
- "T" versions are equipped with factory-installed multi-tap transformers
- Optional "U" brackets and accessories allow for multiple configurations
- Cabinets include 4 M6 rigging points and a safety cable attachment point

driver	2 x 4" woofer 25mm tweeter
power handling	200Watts RMS
impedance	8Ohms Arco 24 and 100volt Arco4T
frequency response	65Hz – 20kHz
tappings	30/20/10watts
sound pressure level	89dB
IP rating	-
dimensions (h x w x d)	340 x 150 x 150mm
weight	2.6kg
colour	white / black

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CES AUDIO SOP5200

Compact IP rated ABS sound projector

- 20 watt 100 & 70 volt line. Tappings via 6-core cable
- IP rated to IEC529 IP66
- Wide bandwidth alternative to horn speakers - ideal for music and speech applications
- High impact ABS housing with UV Protection

driver	5"	sound pressure level	91dB
power handling	20Watts	IP rating	IP66
impedance	100V	dimensions (Ø x d)	150mm x 203mm
frequency response	120Hz – 20kHz	weight	2kg
tappings	20/10/5/2.5Watts	colour	white (RAL9016)

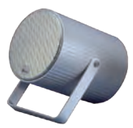
CES AUDIO XMR520PL

ABS sound projector, ideal for music and speech applications.

- 20 watt 100 & 70 volt line or 8Ω. Tappings via 7-core cable
- IP rated to IEC529 IP55
- Wide bandwidth alternative to horn speakers - ideal for music and speech applications
- Compact design high impact ABS housing UV protected
- Epoxy coated steel bracket, stainless steel exterior hardware

driver	5"	sound pressure level	98dB
power handling	20Watts	IP rating	IP55
impedance	100V + 8ohm	dimensions (Ø x d)	184 x 200mm
frequency response	130Hz – 20kHz	weight	2.2kg
tappings	20/10/5/2.5Watts	colour	ivory (RAL1013)

CES AUDIO MSP5200

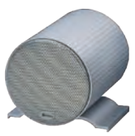


Rugged IP rated aluminium sound projector. Ideal for external audio applications.

- 20 watt 100 & 70 volt line. Tappings via 6-core cable.
- IP rated to IEC529 IP66
- Wide bandwidth alternative to horn speakers - ideal for music and speech applications
- Rugged extruded aluminium housing
- Can be ceiling or wall mounted

driver	5"	sound pressure level	91dB
power handling	20Watts	IP rating	IP66
impedance	100V	dimensions (Ø x d)	146 x 200mm
frequency response	150Hz – 20kHz	weight	2.5kg
tappings	20/10/5/2.5Watts	colour	silver anodized

CES AUDIO MBP5120



Rugged Aluminium Bi-directional sound projector. Ideal for walkways, pedestrian tunnels, corridors etc.

- 12 watt 100 & 70 volt line. Tappings via 6-core cable
- IP rated to IEC529 IP55
- Wide bandwidth alternative to horn speakers - ideal for music and speech applications
- Bi-directional design - for Corridors, Walkways, Tunnels etc.
- Inherently economical design
- Rugged extruded aluminium housing

driver	2 x 5"	sound pressure level	91dB
power handling	12Watts	IP rating	IP55
impedance	100V	dimensions (Ø x d)	146 x 186mm
frequency response	150Hz – 20kHz	weight	3.2kg
tappings	12/6/3/1.5Watts	colour	silver anodized

BOSCH LBC3941/11

Compact water resistant sound projector.

- 6 watt 100 volt
- Excellent speech and music reproduction
- Very wide opening angle
- Modern unobtrusive styling
- Simple power setting
- Splash – waterproof
- Compact yet powerful
- Complies with international installation and safety regulations

driver	4"	sound pressure level	88dB
power handling	6Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	165 x 200mm
frequency response	130Hz – 18kHz	weight	1.5kg
tappings	6/3/1.5/0.75watts	colour	white (RAL9010)

BOSCH LBC3094/15

ABS sound projector. Ideal for music as well as speech applications.

- 10 watt 100 volt line
- Suitable for speech and music reproduction
- Simple power setting
- 2m fixed connection cable
- Splash-waterproof
- Robust self-extinguishing ABS enclosure to UL 94 V0
- Complies with international installation and safety regulations

driver	6"	sound pressure level	92dB
power handling	15Watts	IP rating	IP35
impedance	100V	dimensions (Ø x d)	175 x 268mm
frequency response	140Hz – 13kHz	weight	2.5kg
tappings	10/5/2.5Watts	colour	off white (PH90019)

BOSCH LP1UC10E

Stylish high quality sound projector with voice alarm compliance.

- 10 watt 100 volt line
- Superb speech and music reproduction
- Ease of installation
- Modern unobtrusive styling
- Integrated connection cable
- Suitable for loop-through cabling
- Ceiling and/or wall mounting
- Tough, impact-resistant enclosure
- Water and dust protected to IP 65
- BS 5839 part 8 compliant

driver	6.5"	sound pressure level	86dB
power handling	10Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	185 x 300mm
frequency response	75Hz – 20kHz	weight	3kg
tappings	10/5/2.5Watts	colour	white (RAL9010)

BOSCH LP1UC20E

Stylish high quality sound projector. Superb music and speech reproduction with voice alarm compliance

- 20 watts
- Superb speech and music reproduction
- Ease of installation
- Modern unobtrusive styling
- Integrated connection cable
- Suitable for loop-through cabling
- Ceiling and/or wall mounting
- Tough, impact-resistant enclosure
- Water and dust protected to IP65
- BS 5839 part 8 compliant

driver	6.5"	sound pressure level	87dB
power handling	20Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	185 x 300mm
frequency response	75Hz – 20kHz	weight	3kg
tappings	20/10/5Watts	colour	white(RAL9010)

BOSCH LP1BC10E

Stylish high quality bi-directional sound projector. Superb music and speech reproduction with voice alarm compliance.

- Superb speech and music reproduction
- Ease of installation
- Modern unobtrusive styling
- Integrated connection cable
- Suitable for loop-through cabling
- Ceiling and/or wall mounting
- Tough, impact-resistant enclosure
- Water and dust protected to IP 65
- BS 5839 part 8 compliant

driver	2 x 6.5"	sound pressure level	80dB
power handling	10Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	185 x 297mm
frequency response	75Hz – 20kHz	weight	3kg
tappings	10/5/2.5Watts	colour	white (RAL9010)

BOSCH LBC3432/01

Rugged Voice alarm compliant aluminium sound projector.

- Excellent speech and music reproduction
- Simple power setting
- Provision for supervision board mounting
- Suitable for loop-through cabling
- (Suspended) ceiling and/or wall mounting
- Robust aluminum extrusion enclosure
- Water and dust protected to IP 66
- BS5839-8 compliant

driver	5"	sound pressure level	92dB
power handling	20Watts	IP rating	IP66
impedance	100V	dimensions (Ø x d)	146 x 200mm
frequency response	150Hz – 20kHz	weight	2.6kg
tappings	20/10/5Watts	colour	white (RAL9010)

BOSCH LBC3430/01

Rugged Voice alarm compliant bi-directional sound projector

- Excellent speech and music reproduction
- Simple power setting
- 2 speaker bi-directional system
- Provision for supervision board mounting
- Suitable for loop-through cabling
- (Suspended) ceiling and/or wall mounting
- Robust aluminum extrusion enclosure
- Water and dust protected to IP 66
- BS 5839-8 compliant

driver	2 x 5"	sound pressure level	91dB
power handling	12Watts	IP rating	IP55
impedance	100V	dimensions (Ø x d)	146 x 186mm
frequency response	180Hz – 20kHz	weight	3.3kg
tappings	12/6/3Watts	colour	white (RAL9010)

APART MPH30

Very powerful horn-loaded sound projector, effective for both in- and outdoor use.

- Suitable for areas where the background noise level is high
- High quality 30 watt 100 Volt transformer with several power tappings
- Equipped with a treated 5.25" woofer with aluminium dome giving a clear sound reproduction or music and speech, even for long distance use
- Supplied with stainless steel bracket and screws, and constructed from ABS plastics
- Weather and UV-proof

driver	5.25"	sound pressure level	101dB
power handling	30Watts	IP rating	IP54
impedance	100V	dimensions (Ø x d)	180 x 200mm
frequency response	120Hz – 15kHz	weight	1.95kg
tappings	30/15/7.5Watts	colour	white

APART MPBD15

Bi-Directional Sound Projector.

- Stylish dual cone sound projector
- 5.25" coated dual cone woofer
- High quality 15 watt 100 Volt transformer
- Ideal for back ground music and microphone calls
- Stainless steel bracket and screws
- Weatherproof - IP64 rated
- High impact ABS UV-proof housing
- Suitable for both indoor and outdoor applications

driver	2 x 5.25" Twin cone	sound pressure level	95dB
power handling	15Watts	IP rating	IP55
impedance	100V	dimensions (Ø x d)	150 x 196mm
frequency response	100Hz – 17kHz	weight	2.5kg
tappings	15/7.5/3.75Watts	colour	white (RAL9016)

PROEL HS10

Rugged ABS rectangular horn flare.
• Stainless steel U bracket

driver	-	sound pressure level	105dB
power handling	10Watts	IP rating	IP55
impedance	100V	dimensions (h x w x d)	125 x 176 x 179mm
frequency response	315Hz – 12.5kHz	weight	1.1kg
tappings	10/5/3/1.5Watts	colour	cream

PROEL HS15

Rugged ABS rectangular horn flare.
• Stainless steel U bracket

driver	-	sound pressure level	108dB
power handling	15Watts	IP rating	IP55
impedance	100V	dimensions (h x w x d)	161 x 222 x 227mm
frequency response	280Hz – 12.5kHz	weight	1.3kg
tappings	15/10/5/3/1Watts	colour	cream

PROEL HS30

Rugged ABS rectangular horn flare.
• Stainless steel U bracket

driver	-	sound pressure level	109dB
power handling	30Watts	IP rating	IP55
impedance	100V	dimensions (h x w x d)	208 x 287 x 257mm
frequency response	250Hz – 12.5kHz	weight	1.7kg
tappings	30/15/10/5/3/1Watts	colour	cream

CES AUDIO PRH6101/8

High Quality rugged construction round ABS re-entrant horn.
• 10 watt
• High impact ABS construction.
• Water protected to IEC529 IP66.
• Very high efficiency.
• Built-in line transformer with screwdriver adjustable power selector (sealed).
• Glanded cable tails.
• Stainless steel mounting bracket & exterior hardware.

driver	-	sound pressure level	106dB
power handling	10Watts	IP rating	IP66
impedance	100V	dimensions (Ø x d)	156.4 x 220.7mm
frequency response	380Hz – 9kHz	weight	1.54kg
tappings	10/5/2.5/1.25Watts/OFF/8Ohms	colour	light grey (RAL7035)

CES AUDIO PRH8151/8

High Quality rugged construction round ABS re-entrant horn.
• 15 watt
• High impact ABS construction.
• Water protected to IEC529 IP66.
• Very high efficiency.
• Built-in line transformer with screwdriver adjustable power selector (sealed).
• Glanded cable tails.
• Stainless steel mounting bracket & exterior hardware.

driver	-	sound pressure level	108dB
power handling	15Watts	IP rating	IP66
impedance	100V	dimensions (Ø x d)	215.8 x 269.4mm
frequency response	460Hz – 9kHz	weight	1.74kg
tappings	15/7.50/3.75/1.87Watts/OFF/8Ohms	colour	light grey (RAL7035)

CES AUDIO PRH10301/8

High Quality rugged construction round ABS re-entrant horn.
• 30 watt
• High impact ABS construction.
• Water protected to IEC529 IP66
• Very high efficiency
• Built-in line transformer with screwdriver adjustable power selector (sealed)
• Glanded cable tails
• Stainless steel mounting bracket & exterior hardware

driver	-	sound pressure level	110dB
power handling	30Watts	IP rating	IP66
impedance	100V	dimensions (Ø x d)	232.7 x 309.6mm
frequency response	400Hz – 7.5kHz	weight	2.11kg
tappings	30/15/7.5/3.75Watts/OFF/8Ohms	colour	light grey (RAL7035)

CES AUDIO MUH6300

Engineered to provide the highest quality voice and music reproduction for both indoor and outdoor applications where long throw, large area coverage is desired in harsh environments. Ideal for applications such as sports stadia, cruise liners, school yards, municipal swimming pools, high ambient industrial areas and leisure / theme parks.
• 30 watt
• Two-way capabilities for security / monitoring applications
• Water protected to IEC529 IP66
• UV protected for years of outdoor use
• Manufactured in ABS & Polypropylene with glass fibre
• Trunnion extruded aluminium bracket with stainless mounting screws

driver	6.5" + 1"	sound pressure level	98dB
power handling	30Watts	IP rating	IP66
impedance	100V	dimensions (h x w x d)	255 x 370 x 291mm
frequency response	100Hz – 11kHz	weight	4.6kg
tappings	30/15/7.5/3.75Watts	colour	light grey (RAL7035)

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BOSCH LBC3700/00

The very best music horn on the market. Ideal for music and speech in outdoor applications or high ambient noise environments.
• 30 watt
• High quality music horn for excellent speech and music reproduction
• Two-way system
• High sensitivity
• Wide opening angle
• Simple power setting
• Water and dust protected to IP65

driver	6.5" + 1"	sound pressure level	97dB
power handling	30Watts	IP rating	IP65
impedance	100V	dimensions (h x w x d)	260 x 442 x 287.5mm
frequency response	125Hz – 20kHz	weight	5kg
tappings	30/15/7.5/3.75Watts	colour	light grey (RAL7035)

BOSCH LBC3482/00

Aluminium round re-entrant horn speaker with Voice alarm compliance.
• Stainless steel U bracket
• Protected to IP65
• Complies with all voice alarm standards

driver	-	sound pressure level	107dB
power handling	25Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	355 x425mm
frequency response	550Hz – 5kHz	weight	3.6kg
tappings	25/12.5/6.25 Watts	colour	light grey (RAL7035)

BOSCH LBC3483/00

Aluminium round re-entrant horn speaker with Voice alarm compliance.
• Stainless steel U bracket
• Protected to IP65
• Complies with all voice alarm standards

driver	-	sound pressure level	112dB
power handling	35Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	490 x499mm
frequency response	380Hz – 5kHz	weight	4.5kg
tappings	35/17.5/8.75Watts	colour	light grey (RAL7035)

BOSCH LBC3481/12

ABS round re-entrant horn speaker.
• Stainless steel U bracket
• Protected to IP65
• Excellent speech reproduction

driver	-	sound pressure level	103dB
power handling	10Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	156 x184mm
frequency response	500Hz – 7kHz	weight	1.25kg
tappings	10/5/2.5Watts	colour	light grey (RAL7035)

BOSCH LBC3491/12

ABS rectangular re-entrant horn speaker.
• Stainless steel U bracket
• Protected to IP65
• Excellent speech reproduction

driver	-	sound pressure level	108dB
power handling	10Watts	IP rating	IP65
impedance	100V	dimensions (h x w x d)	171 x 267 x 276mm
frequency response	480Hz – 5.5kHz	weight	1.4kg
tappings	10/5/2.5Watts	colour	light grey (RAL7035)

BOSCH LBC3492/12

ABS round re-entrant horn speaker.
• Stainless steel U bracket
• Protected to IP65
• Excellent speech reproduction

driver	-	sound pressure level	110dB
power handling	20Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	354 x 332mm
frequency response	380Hz – 5.5kHz	weight	2.65kg
tappings	20/10/5Watts	colour	light grey (RAL7035)

BOSCH LBC3493/12

ABS round re-entrant horn speaker.
• Stainless steel U bracket
• Protected to IP65
• Excellent speech reproduction

driver	-	sound pressure level	111dB
power handling	30Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	400 x 353mm
frequency response	380Hz – 5kHz	weight	3kg
tappings	30/15/7.5Watts	colour	light grey (RAL7035)

BOSCH TR2-B (by special order only)

Rectangular Exponential Horn Flare.
• UV protected Polypropylene
• Stainless steel U bracket
• Protected to IP66
• Requires UT35T driver unit(see below) or other

power handling	35Watts	sound pressure level	108dB
impedance	100V	IP rating	IP66
frequency response	300Hz – 5kHz	dimensions (h x w x d)	180 x 340 x 415mm
tappings	35/20/10Watts	weight (ex UT-35T)	1.25kg
dispersion H/V @ 2kHz	70°x 50°	colour	grey

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loudspeakers : horn

PASO TR3-B (by special order only)

Rectangular Exponential Horn Flare.

- UV protected Polypropylene
- Stainless steel U bracket
- Protected to IP66
- Requires UT35T or UT60Tdriver unit (see below) or other

power handling	35Watts	sound pressure level	110dB
impedance	100V	IP rating	IP66
frequency response	300Hz – 5kHz	dimensions (h x w x d)	285 x 515 x 486mm
tappings	35/20/10Watts	weight (ex UT-35T)	1.25kg
dispersion H/V @ 2kHz	55˚x 40˚	colour	grey

PASO UT35-T (by special order only)

100 volt line screw on driver unit for TR2-B and TR3-B.

power handling	35Watts	sound pressure level	110dB
impedance	100V	IP rating	-
frequency response	-	dimensions (h x w x d)	112 x 154mm
tappings	35/20/10Watts	weight (ex UT-35T)	1.75kg
dispersion H/V @ 2kHz	-	colour	grey

PASO UT60-T (by special order only)

100 volt line screw on driver unit for TR3-B.

power handling	60Watts	sound pressure level	111dB
impedance	100V	IP rating	-
frequency response	-	dimensions (h x w x d)	112 x 154mm
tappings	60/30/15/7.5Watts	weight	2.1kg
dispersion H/V @ 2kHz	-	colour	grey

loudspeakers : column

CES AUDIO CLS3100

Compact slimline column loudspeaker range.

- Highly cost effective solution
- Durable galvanized steel housing
- Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate, "long throw" applications
- Multi impedance 100V & 70V
- Rotary power and tappings selector
- Rear-mounted low-cut switch for speech
- Mounting bracket included

driver	1 x 3" Woofer + 1 x 2" Tweeter	sound pressure level	85dB
power handling	10Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	222 x 95 x 95mm
frequency response	170Hz – 20kHz	weight	1.31kg
tappings	10/5/2.5/1.25Watts	colour	white (RAL9003)

CES AUDIO CLS3200

Compact slimline column loudspeaker range.

- Highly cost effective solution
- Durable galvanized steel housing
- Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate, "long throw" applications
- Multi impedance 100V & 70V
- Rotary power and tappings selector
- Rear-mounted low-cut switch for speech
- Mounting bracket included

driver	2 x 3" Woofer + 1 x 2" Tweeter	sound pressure level	87dB
power handling	20Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	304 x 95 x 95mm
frequency response	150Hz – 20kHz	weight	1.81kg
tappings	20/10/5/2.5Watts	colour	white (RAL9003)

CES AUDIO CLS3300

Compact slimline column loudspeaker range.

- Highly cost effective solution
- Durable galvanized steel housing
- Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate, "long throw" applications
- Multi impedance 100V & 70V
- Rotary power and tappings selector
- Rear-mounted low-cut switch for speech
- Mounting bracket included

driver	3 x 3" Woofer + 1 x 2" Tweeter	sound pressure level	88dB
power handling	20Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	387 x 95 x 95mm
frequency response	140Hz – 20kHz	weight	2.3kg
tappings	30/17/7.5/3.75Watts	colour	white (RAL9003)

CES AUDIO CLS3400

Compact slimline column loudspeaker range.

- Highly cost effective solution
- Durable galvanized steel housing
- Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate, "long throw" applications
- Multi impedance 100V & 70V
- Rotary power and tappings selector
- Rear-mounted low-cut switch for speech
- Mounting bracket included

driver	4 x 3" Woofer + 1 x 2" Tweeter	sound pressure level	90dB
power handling	40Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	469 x 95 x 95mm
frequency response	140Hz – 20kHz	weight	2.8kg
tappings	40/20/10/5Watts	colour	white (RAL9003)

CES AUDIO COS3100

High Quality IP rated column speakers. Ideal for places of worship, conferencing and concourse applications.

- Durable extruded aluminium housing
- Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate, "long throw" applications
- Water protected to IEC529 IP66, suitable for indoor and outdoor use
- Durable aluminium alloy multi bracket broken tested up to 1500 kgf
- Also available in 20 & 30 watt versions
- Multi impedance 100V, 70V
- Tapping selected via 6 way power cord

driver	2 x 3.5" Woofer + 1 x 3.25" Tweeter	sound pressure level	91dB
power handling	10Watts	IP rating	IP66
impedance	100V	dimensions (h x w x d)	395 x 114 x 96mm
frequency response	130Hz – 20kHz	weight	2.8kg
tappings	10/5/2.5/1.25Watts	colour	white (RAL9003)

CES AUDIO COS3200

High Quality IP rated column speakers. Ideal for places of worship, conferencing and concourse applications.

- Durable extruded aluminium housing
- Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate, "long throw" applications
- Water protected to IEC529 IP66, suitable for indoor and outdoor use
- Durable aluminium alloy multi bracket broken tested up to 1500 kgf
- Also available in 10 & 30 watt versions
- Multi impedance 100V, 70V
- Tapping selected via 6 way power cord

driver	4 x 3.5" Woofer + 1 x 3.25" Tweeter	sound pressure level	92dB
power handling	20Watts	IP rating	IP66
impedance	100V	dimensions (h x w x d)	585 x 114 x 96mm
frequency response	120Hz – 20kHz	weight	4kg
tappings	20/10/5/2.5Watts	colour	white (RAL9003)

CES AUDIO COS3300

High Quality IP rated column speakers. Ideal for places of worship, conferencing and concourse applications.

- Durable extruded aluminium housing
- Attractive slimline construction
- High specification driver units / tweeter for exceptional speech & music reproduction
- Suitable for accurate, "long throw" applications
- Water protected to IEC529 IP66, suitable for indoor and outdoor use
- Durable aluminium alloy multi bracket broken tested up to 1500 kgf
- Also available in 10 & 20 watt versions
- Multi impedance 100V, 70V
- Tapping selected via 6 way power cord

driver	6 x 3.5" Woofer + 1 x 3.25" Tweeter	sound pressure level	93dB
power handling	30Watts	IP rating	IP66
impedance	100V	dimensions (h x w x d)	770 x 114 x 96mm
frequency response	110Hz – 20kHz	weight	5.6kg
tappings	30/15/7.5/3.75Watts	colour	white (RAL9003)

BOSCH LA1UW24

- 24 watt 100 volt general-purpose cost effective column loudspeaker for indoor use
- Ideal for places of worship, congress venues, meeting rooms and canteens
- A swivel wall mounting bracket is supplied as standard
- Robust, solid MDF enclosure covered with durable, easy-to-clean vinyl
- ABS front covered with fine woven cloth in matching color
- Fitted with four dual cone high sensitivity loudspeaker drivers

driver	4 x 5"	sound pressure level	96dB
power handling	24Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	841 x 151 x 129mm
frequency response	165Hz – 16kHz	weight	5.5kg
tappings	24/12/6Watts	colour	white (RAL9010/RAL7044) – black (RAL9004)

BOSCH LA1UW36

- 36 watt 100 volt general-purpose cost effective column loudspeaker for indoor use
- Ideal for places of worship, congress venues, meeting rooms and canteens
- A swivel wall mounting bracket is supplied as standard
- Robust, solid MDF enclosure covered with durable, easy-to-clean vinyl
- ABS front covered with fine woven cloth in matching color
- Fitted with four dual cone high sensitivity loudspeaker drivers

driver	4 x 5"	sound pressure level	98dB
power handling	36Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	841 x 151 x 129mm
frequency response	160Hz – 19kHz	weight	6kg
tappings	36/18/9Watts	colour	white (RAL9010/7044) – black (RAL9004)

BOSCH LBC3200/00

*NB picture shows lower section of speaker only!

30 watt Line Array with excellent directivity characteristics. Voice alarm compliant as standard.

- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room
- Suitable for any small to medium enclosures, from congress venues to meeting rooms
- Extremely slim
- Voice evacuation compliant as standard
- Ideal combination of advanced acoustics and easy application
- Unrivalled sound quality for size

driver	2"	sound pressure level	91dB
power handling	30Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	600 x 80 x 90mm
frequency response	190Hz – 18kHz	weight	3kg
tappings	30/15/7.5Watts	colour	silver

BOSCH LBC3201/00

*NB picture shows lower section of speaker only!

60 watt Line Array with excellent directivity characteristics. Voice alarm compliant as standard.

- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room
- Excellent directivity for use in acoustically difficult, reverberant applications
- Suitable for larger enclosures, such as meeting halls and places of worship
- Extremely slim
- Voice evacuation compliant as standard

driver	2"	sound pressure level	92dB
power handling	60Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	1200 x 80 x 90mm
frequency response	190Hz – 18kHz	weight	6.4kg
tappings	60/30/15Watts	colour	silver

BOSCH LBC3210/00

*NB picture shows lower section of speaker only!

High power line Array with excellent directivity characteristics. Voice alarm compliant as standard.

- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room
- Suitable for both indoor and outdoor use, ranging from sport stadiums to passenger terminals
- Ideal combination of advanced acoustics and easy application
- Powerful with high efficiency
- Voice evacuation compliant as standard
- Provision for inside mounting the optional line/ loudspeaker supervision board

driver	4"	sound pressure level	97dB
power handling	60Watts	IP rating	IP66
impedance	100V	dimensions (h x w x d)	1200 x 160 x 90mm
frequency response	190Hz – 20kHz	weight	9kg
tappings	60/30/15Watts	colour	silver

CES AUDIO SPS5121

Compact high quality12 watt pendant.

- Designed for wide area sound coverage
- 12 watt compact 5" driver unit
- High performance driver units for music & speech applications
- Power cord broken tested up to 48.35 kgs (106 lbs)
- High impact self extinguishing UL94V0 ABS housing with UV protection
- IP rated to IEC529 IP55

driver	5"	sound pressure level	89dB
power handling	12Watts	IP rating	IP55
impedance	100V	dimensions (Ø x d)	180mm
frequency response	130Hz – 20kHz	weight	1.5kg
tappings	12/9/6/3/1Watts/8Ohms	colour	white (RAL9016)

CES AUDIO SPS6301

High power unit. Ideal for music as well as speech applications Designed for wide area sound coverage.

- 30 watt 6.5" driver unit
- High performance driver units for music & speech applications
- Power cord broken tested up to 48.35 kgs (106 lbs)
- High impact self extinguishing UL94V0 ABS housing with UV protection
- IP rated to IEC529 IP55

driver	6.5"	sound pressure level	107dB
power handling	30Watts	IP rating	IP55
impedance	100V	dimensions (Ø x d)	260mm
frequency response	100Hz – 20kHz	weight	2.4kg
tappings	30/20/15/10/5Watts/8Ohms	colour	white (RAL9016)

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PROEL CSB10

Cost effective pendant loudspeaker. Ideal for speech & background music applications.

- Designed for wide area sound coverage
- 10 watt compact 5" driver unit
- For music & speech applications
- 5m hanging chord
- IP rated to IP44

driver	5"	sound pressure level	92dB
power handling	10Watts	IP rating	IP44
impedance	100V	dimensions (Ø x d)	180mm
frequency response	110Hz – 15kHz	weight	1.5kg
tappings	10/5/2.5Watts	colour	white (RAL9010)

APART SPH20

Superb 360˚ coverage pattern reduces install costs dramatically. Great from music as well as speech.

- Dual-cone Pendant speaker
- Built-in special dispersion cone giving a 360° wide dispersion
- The best choice for spaces with high ceilings (+4m)
- Moisture and UV proof ABS plastic housing
- Finished in white

driver	8"	sound pressure level	99dB
power handling	20Watts	IP rating	IP63
impedance	100V	dimensions (Ø x d)	254mm
frequency response	80Hz – 18kHz	weight	2.3kg
tappings	20/10/5/2.5Watts	colour	white

BOSCH LS1UC20E

Stylish design pendant loudspeaker. Ideal for atriums, large open plan retail outlets etc. Also voice alarm compliant.

- Superb speech and music reproduction
- Wide sound spread
- Ease of installation
- Modern unobtrusive styling
- Tough, impact-resistant enclosure
- 5 m connection cable
- Provision for optional safety cord
- Water and dust protected to IP65
- BS 5839 part 8 compliant

driver	6.5"	sound pressure level	99dB
power handling	20Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	185 x 254mm
frequency response	80Hz – kHz	weight	3kg
tappings	20/10/5Watts	colour	white (RAL9010)

SOUNDTUBE RS400i

SoundTube speakers deliver better, more intelligible sound through Broad-Beam® dispersion technology, which distributes the higher frequencies of sound in a wider, more effective pattern than conventional speakers. This allows for wider spacing of speakers and fewer speakers overall, without sacrificing intelligibility.From retail to restaurant, entertainment to education, safety to sport, SoundTube speakers have set new standards for performance, installation ease, style and value.

- 20 watt, 8ohm, Pendant loudspeaker
- 4" weatherproofed woofer
- 1" broadbeam tweeter
- Complete fixing system included
- Available in black or white

driver	4" Woofer + 1" Tweeter	sound pressure level	85dB
power handling	20Watts	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	197 x 224mm
frequency response	94Hz – 22kHx	weight	1.8kg
tappings	20/10/5/2.5W/8ohm	colour	white / black

SOUNDTUBE RS500i

SoundTube speakers deliver better, more intelligible sound through Broad-Beam® dispersion technology, which distributes the higher frequencies of sound in a wider, more effective pattern than conventional speakers. This allows for wider spacing of speakers and fewer speakers overall, without sacrificing intelligibility.From retail to restaurant, entertainment to education, safety to sport, SoundTube speakers have set new standards for performance, installation ease, style and value.

- 32 watt Pendant loudspeaker
- 5.25" weatherproofed woofer
- 1" broadbeam tweeter
- Complete fixing system included
- Available in black or white

driver	5.25" Woofer + 1" Tweeter	sound pressure level	88.5dB
power handling	32Watts	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	245.9 x 298.3mm
frequency response	75Hz – 22kHz	weight	4.3kg
tappings	32/16/8/4Watts	colour	white / black

SOUNDTUBE RS600i

SoundTube speakers deliver better, more intelligible sound through Broad-Beam® dispersion technology, which distributes the higher frequencies of sound in a wider, more effective pattern than conventional speakers. This allows for wider spacing of speakers and fewer speakers overall, without sacrificing intelligibility.From retail to restaurant, entertainment to education, safety to sport, SoundTube speakers have set new standards for performance, installation ease, style and value.

- 32 watt Pendant loudspeaker
- 6.5" weatherproofed woofer
- 1" broadbeam tweeter
- Ideal for music applications
- Complete fixing system included
- Available in black or white

driver	6.5" Woofer + 1" Tweeter	sound pressure level	90.5dB
power handling	32Watts	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	307.3 x 363.6mm
frequency response	63Hz – 22kHz	weight	6.1kg
tappings	32/16/8/4Watts	colour	white / black

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SOUNDTUBE RS800i

SoundTube speakers deliver better, more intelligible sound through Broad-Beam® dispersion technology, which distributes the higher frequencies of sound in a wider, more effective pattern than conventional speakers. This allows for wider spacing of speakers and fewer speakers overall, without sacrificing intelligibility.From retail to restaurant, entertainment to education, safety to sport, SoundTube speakers have set new standards for performance, installation ease, style and value.

- 64 watt Pendant loudspeaker
- 8" weatherproofed woofer
- 1" broadbeam tweeter
- Mid/foreground music applications
- Complete fixing system included
- Available in black or white

driver	8" Woofer + 1" Tweeter	sound pressure level	92.5dB
power handling	64Watts	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	376.5 x 437.7mm
frequency response	65Hz – 22kHz	weight	9.2kg
tappings	54/32/16/8Watts	colour	white / black

SOUNDTUBE FB6030

Stereo, Dual Parabolic 8 Ohm Stereo / 4 Ohm Mono Narrow Dispersion Suspension Speaker. Designed to offer extremely defined audio fields e.g a museum display with audio narration or a music shop with demo stations.

- Patented Dual-Parabolic dispersion control technology provides a dramatic hot spot with crisp stereo separation
- Engineered for stereo or mono applications
- Twin 25 mm (1 in) convex aluminum High Excursion Micro • Transducers in individually sealed enclosures for stereo or mono music & messaging
- Patented ZeroReflection™ enclosure technology for accurate sound reproduction
- Narrow 41° coverage angle for sharp focus
- Single-point balanced mounting for easier and cleaner-looking installs
- Mounting hardware included, optional wall bracket available

driver	2x25mm sealed transducers	sound pressure level	92.5dB
power handling	30Watts RMS 8ohm/ 10watt 100volt line	IP rating	-
impedance	100V + 8ohm	dimensions (Ø x d)	781 x 333mm
frequency response	104Hz – 22kHz	weight	4.1kg
tappings	10/5/2.5/1.25Watts	colour	black / clear or custom

ES2 BEXL15D

- 15 watts
- EEx d IIC T4
- ATEX / KEMA Certified / CENELEC approved
- Area classification ZONE 1 & 2
- Complies with BS5839 Part 8
- Marine Grade LM6 LIGHT WEIGHT housing
- Large termination area for ease of installation
- PCB protected against damage during installation
- Fitted with Thermal Fuse

driver	-	sound pressure level	102dB
power handling	15"	IP rating	IP67
impedance	100v	dimensions (Ø x d)	181 x 262mm
frequency response	400Hz – 8kHz	weight	3.45kg
tappings	15/7.5/3/1Watts	colour	red (RAL 3000)

ES2 BEXL25D

- 25 watts
- EEx d IIC T4
- ATEX / KEMA Certified / CENELEC approved
- Area classification ZONE 1 & 2
- Complies with BS5839 Part 8
- Marine Grade LM6 LIGHT WEIGHT housing
- Large termination area for ease of installation
- PCB protected against damage during installation
- Fitted with Thermal Fuse

driver	-	sound pressure level	105dB
power handling	25"	IP rating	IP67
impedance	100v	dimensions (Ø x d)	220 x 313mm
frequency response	300Hz – 8kHz	weight	3.95kg
tappings	25/12.5/6/2Watts	colour	red (RAL3000)

CES AUDIO QCM5061EVAF

5" compact ceiling speaker with patented rapid installation system.

- Compliant to BS5839 part 8. (British standards for voice alarm systems)
- Mild steel construction capable of withstanding temperature of 650°C
- Ceramic termination blocks and fire resistant internal cabling
- Twin gland entry steel fire dome with patented "SUPER-FIT" system
- 150°C thermal isolating fuse
- Share generic low profile grille design & simple fit system throughout entire QCM series
- Fitted with a 5.25" twin cone driver unit. Designed to offer wide response for music & speech
- 6 watt transformer with multi tappings down to 0.75W (100V) & 0.375W (70V)
- Built-in ceiling tile cutout marker
- Dished grille design for acoustic integrity

driver	5"	sound pressure level	92dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	180 x 127mm
frequency response	100Hz – 20kHz	weight	1.7kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9003)

CES AUDIO QCM6061EVAF

6.5" standard ceiling speaker with patented rapid installation system.

- Compliant to BS5839 part 8. (British standards for voice alarm systems)
- Mild steel construction capable of withstanding temperature of 650°C
- Ceramic termination blocks and fire resistant internal cabling
- Twin gland entry steel fire dome with patented "SUPER-FIT" system
- 150°C thermal isolating fuse
- Share generic low profile grille design & simple fit system throughout entire QCM series
- Fitted with a 6.5" twin cone driver unit. Designed to offer wide response for music & speech
- 6 watt transformer with multi tappings down to 0.75W (100V) & 0.375W (70V)
- Built-in ceiling tile cutout marker
- Dished grille design for acoustic integrity

driver	6"	sound pressure level	93dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	230 x 127mm
frequency response	100Hz – 20kHz	weight	2kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9003)

CES AUDIO QCM8200CVAF

8" pro ceiling speaker with patented rapid installation system Compliant to BS5839 part 8. (British standards for voice alarm systems).

- Mild steel construction capable of withstanding temperature of 650°C
- Ceramic termination blocks and fire resistant internal cabling
- Twin gland entry steel fire dome with patented "SUPER-FIT" system
- 150°C thermal isolating fuse
- Share generic low profile grille design & simple fit system throughout entire QCM series
- The ultimate ceiling speaker from CES Audio
- Fitted with an 8" 2-way polypropylene driver unit with 2.5" mylar tweeter & 13 ounce magnet designed to offer wide response for music & speech
- Excellent low frequency response
- 20 watt transformer with multi tappings down to 2.5W (100V) & 1.25W (70V)
- Built-in ceiling tile cutout marker
- Dished grille design for acoustic integrity

driver	8" Driver + 2.5" Tweeter	sound pressure level	89dB
power handling	20Watts	IP rating	-
impedance	100V	dimensions (Ø x d)	270 x 127mm
frequency response	50Hz – 20kHz	weight	3.2kg
tappings	20/10/5/2.5Watts	colour	white (RAL9003)

CES AUDIO WSM5061VA

Multi purpose wall cabinet loudspeaker, designed to be vandal-proof as well as compliant with voice alarm standards world-wide. Ideal for environments such as schools, public buildings, car parks, offices etc.

- Compliant to BS5839 part 8. (British standards for voice alarm systems)
- Mild steel construction capable of withstanding temperature of 650°C
- Rugged powder-coated vandal-resistant mild steel cabinet
- Ceramic termination blocks and fire resistant internal cabling.
- Twin gland entry steel fire dome with patented "SUPER-FIT" system
- 150°C thermal isolating fuse
- 2 fix install system

driver	5.25"	sound pressure level	91dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	163.5 x 163.5 x 60mm
frequency response	150Hz – 18kHz	weight	2kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9003)

BOSCH LBC3018/00

Rugged vandal-proof cabinet speaker complaint to BS5839part8 for voice alarm.

- 6 watt, 100 volt line
- Suitable for speech and music reproduction
- Robust metal enclosure
- Surface and/or recessed mounting
- Unobtrusive in virtually all interiors
- Recommended for voice evacuation systems

driver	6.5"	sound pressure level	94dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	195 x 260 x 80mm
frequency response	150Hz – 20kHz	weight	2.6kg
tappings	6/3/1.5/0.75Watts	colour	white (RAL9010)

BOSCH LS1UC20E

Stylish design pendant loudspeaker. Ideal for atriums, large open plan retail outlets etc. Voice alarm compliant to BS 5839 part 8.

- Superb speech and music reproduction
- Wide sound spread
- Ease of installation
- Modern unobtrusive styling
- Tough, impact-resistant enclosure
- 5m connection cable
- Provision for optional safety cord
- Water and dust protected to IP 65
- BS 5839 part 8 compliant

driver	6.5"	sound pressure level	86dB
power handling	20Watts	IP rating	IP55
impedance	100V	dimensions (Ø x d)	185 x 254mm
frequency response	80Hz – 20kHz	weight	3kg
tappings	20/10/5Watts	colour	white (RAL9010)

BOSCH LP1UC10E

Stylish high quality sound projector with voice alarm compliance.

- 10 watt 100 volt line
- Superb speech and music reproduction
- Ease of installation
- Modern unobtrusive styling
- Integrated connection cable
- Suitable for loop-through cabling
- Ceiling and/or wall mounting
- Tough, impact-resistant enclosure
- Water and dust protected to IP65
- BS 5839 part 8 compliant

driver	6.5"	sound pressure level	86dB
power handling	10Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	185 x 300mm
frequency response	75Hz – 20kHz	weight	3kg
tappings	2.5/5/10Watts	colour	white (RAL9010)

BOSCH LP1UC20E

Stylish high quality sound projector. Superb music and speech reproduction with voice alarm compliance.

- 20 watts
- Superb speech and music reproduction
- Ease of installation
- Modern unobtrusive styling
- Integrated connection cable
- Suitable for loop-through cabling
- Ceiling and/or wall mounting
- Tough, impact-resistant enclosure
- Water and dust protected to IP 65
- BS 5839 part 8 compliant

driver	6.5"	sound pressure level	87dB
power handling	20Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	185 x 300mm
frequency response	75Hz – 20kHz	weight	3kg
tappings	5/10/20Watts	colour	white (RAL9010)

BOSCH LP1BC10E

Stylish high quality bi-directional sound projector. Superb music and speech reproduction with voice alarm compliance.

- Superb speech and music reproduction
- Ease of installation
- Modern unobtrusive styling
- Integrated connection cable
- Suitable for loop-through cabling
- Ceiling and/or wall mounting
- Tough, impact-resistant enclosure
- Water and dust protected to IP 65
- BS 5839 part 8 compliant

driver	6.5"	sound pressure level	80dB
power handling	10Watts	IP rating	IP65
impedance	100V	dimensions (Ø x d)	185 x 297mm
frequency response	75Hz – 20kHz	weight	3kg
tappings	2.5/5/10Watts	colour	white (RAL9010)

BOSCH LBC3200/00

*NB picture shows lower section of speaker only!

30 watt Line Array with excellent directivity characteristics. Voice alarm compliant as standard.

- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room
- Suitable for any small to medium enclosures, from congress venues to meeting rooms
- Extremely slim
- Voice evacuation compliant as standard
- Ideal combination of advanced acoustics and easy application
- Unrivalled sound quality for size

driver	2"	sound pressure level	91dB
power handling	30Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	600 x 80 x 90mm
frequency response	190Hz – 18kHz	weight	3kg
tappings	30/15/7.5Watts	colour	silver

BOSCH LBC3201/00

*NB picture shows lower section of speaker only!

60 watt Line Array with excellent directivity characteristics. Voice alarm compliant as standard.

- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room
- Excellent directivity for use in acoustically difficult, reverberant applications
- Suitable for larger enclosures, such as meeting halls and places of worship
- Extremely slim
- Voice evacuation compliant as standard

driver	2"	sound pressure level	92dB
power handling	6Watts	IP rating	-
impedance	100V	dimensions (h x w x d)	1200 x 80 x 90mm
frequency response	190Hz – 18kHz	weight	6.4kg
tappings	60/30/15Watts	colour	silver

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BOSCH LBC3210/00

*NB picture shows lower section of speaker only!

High power line Array with excellent directivity characteristics. Voice alarm compliant as standard.

- Extended listening area
- Excellent intelligibility of speech and music
- Uniform distribution of natural sound throughout the room
- Suitable for both indoor and outdoor use, ranging from sport stadiums to passenger terminals
- Ideal combination of advanced acoustics and easy application
- Powerful with high efficiency
- Voice evacuation compliant as standard
- Provision for inside mounting the optional line/ loudspeaker supervision board

driver	4"	sound pressure level	97dB
power handling	60Watts	IP rating	IP66
impedance	100V	dimensions (h x w x d)	1200 x 160 x 90mm
frequency response	190Hz – 20kHz	weight	9kg
tappings	60/30/15Watts	colour	silver

BOSCH LBC3432/01

Rugged Voice alarm compliant aluminium sound projector Excellent speech and music reproduction.

- Simple power setting
- Provision for supervision board mounting
- Suitable for loop-through cabling
- (Suspended) ceiling and/or wall mounting
- Robust aluminum extrusion enclosure
- Water and dust protected to IP66
- BS 5839-8 compliant

driver	5"	sound pressure level	92dB
power handling	20Watts	IP rating	IP66
impedance	100V	dimensions (Ø x d)	146 x 200mm
frequency response	150Hz – 20kHz	weight	2.6kg
tappings	5/10/20Watts	colour	white (RAL:9010)

BOSCH LBC3430/01

Rugged Voice alarm compliant bi-directional sound projector.

- Excellent speech and music reproduction
- Simple power setting
- 2 speaker bi-directional system
- Provision for supervision board mounting
- Suitable for loop-through cabling
- (Suspended) ceiling and/or wall mounting
- Robust aluminum extrusion enclosure
- Water and dust protected to IP55
- BS 5839-8 compliant

driver	2 x 5:	sound pressure level	91dB
power handling	12Watts	IP rating	IP55
impedance	100V	dimensions (Ø x d)	146 x 186mm
frequency response	180Hz – 20kHz	weight	3.3kg
tappings	3/6/12Watts	colour	white (RAL:9010)

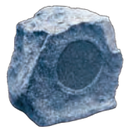
SOUNDTUBE XT550GN

'The best in-ground speaker on the market' as used in Disneyland and a number of world famous theme parks.

- UV, scratch and weather-resistant with professional-grade components for long-lasting performance and durability
- Patented BroadBeam® waveguide technology provides smooth 360° horizontal off-axis coverage and reduces overall system costs
- One 133 mm (5.25 in) weatherproof polypropylene woofer with butyl rubber surround and one 25 mm (1.0 in) aluminum dome tweeter with integrated horn & mounting bracket
- Weather-proof 5-position tap switch for 25/70.7/100 Volt applications with voice coil direct (4 Ohm) position. 32 Watt transformer included
- Patented, durable and sealed Zero Reflection™ enclosure with optional port vent for added frequency response
- Liquid-tight compression fittings for water-tight protection
- Multiple wire inlet locations for fast and easy daisy chaining
- Stainless steel fasteners, stainless steel & powder-coated grille

driver	5.25" Woofer + 1" Tweeter
power handling	60Watts
impedance	100V
frequency response	75Hz – 12kHz (port open) / 101Hz – 12kHz (port closed)
tappings	3/6/12Watts
sound pressure level	88.5dB
IP rating	IP67
dimensions (Ø x d)	358 x 394mm
weight	5.9kg
colour	granite green or sandstone

APART ROCK20



Stylish 2-way loudspeaker reproduces a Hi-Fi sound quality. Ideal for domestic (back garden) applications as well as flower beds in hospitals, nursing homes etc.
The polyester rock style housing is finished in grey and contains a:

- 2 way 6.5" driver
- 20 Watt 100 Volt transformer with several power tappings.
- Weatherproof to IP64

driver	6.5"	sound pressure level	92dB
power handling	20W	IP rating	IP64
impedance	100V	dimensions (h x w x d)	260 x 200 x 280mm
frequency response	60Hz – 20kHz	weight	3.75kg
tappings	20/10/5/2.5Watts/8Ohms	colour	grey

DNH AQUA30T Underwater loudspeaker

Ideal for water aerobics and syncro swimming. The Aqua 30T can be installed simply within a swimming pool to give stunning audio performance due to the efficiency of sound waves in water.

- 100% Waterproof
- Excellent performance in water
- Effective freq. res. 280Hz – 18kHz
- Unique design
- Surface or flush-mounting with screws or bracket
- Supplied with 5m cable

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MONACOR MPR1

1-channel microphone preamplifier.

- 1 microphone input, XLR, bal., or 6.3mm jack, unbalanced
- 1 XLR, balanced, or 6.3mm jack, unbalanced output
- Adjustable gain, up to a max. of 50dB (balananced.) or 44dB (unbalanced.)
- Clip LED
- 30V phantom power, can be switched on additionally
- Output voltage 1V
- 113x92x40mm (WxHxD)
- 230VAC -12VDC PSU included

MONACOR MPA102

1-channel low-noise microphone preamplifier.

- 1 microphone input, XLR, balanced
- 1 stereo line input
- Gain, 11 steps 20-70dB
- LED green/red for operation/peak
- Phantom power +24V, can be switched on additionally
- Microphone phase can be switched
- Lo cut 100Hz, hi cut 12kHz, 12dB/oct., switchable
- 1 preamplifier output XLR
- 1 stereo line output
- Level control and panorama control for mixing the microphone signal to the stereo line channel
- 230VAC mains or 4 x 9V battery operation
- 116x55x125mm (WxHxD)

MONACOR MPA202

2-channel low-noise microphone preamplifier.

- 2 microphone inputs, XLR, balanced
- Gain, 11 steps 20-70dB
- 2 level controls ±5dB
- LED green/red for operation/peak
- Phantom power +12V, can be switched on additionally
- Microphone phase can be switched for each channel
- Lo cut 15-240Hz, continuously adjustable
- Subsonic filter 15Hz, 18dB/oct.
- 2 line outputs, XLR bal.
- 2 line outputs, RCA unbalanced
- 116x55x135mm (WxHxD)
- 230VAC -15VDC PSU included

BEHRINGER XENYX802

High quality cost effective and compact flat bed mixer.

- Premium ultra low-noise, high headroom analog mixer
- 2 state-of-the-art XENYX Mic Preamps comparable to stand-alone boutique preamps
- Neo-classic "British" 3-band EQs for warm and musical sound
- 1 post fader FX send per channel for external FX devices
- 1 stereo aux return for FX applications or as separate stereo input
- Main mix outputs plus separate control room, phones and stereo CD/tape outputs
- CD/tape inputs assignable to main mix or control room / phones outputs
- High-quality components and exceptionally rugged construction ensure long life

no. inputs	4 inputs (2 mic/line, 2 stereo/line)
output zones	Main mix outputs plus separate control room, phones and stereo CD/tape outputs
rack mountable	-
power supply	230V
dimensions (h x w x d)	47(MAX) x 189 x 220mm
'U' height	-
weight	1kg

JEDIA JMA1410

Highly versatile 10 input pre-amp mixer with simple 2 channel routing function for each input. Built in chime and 3 way priority facility.

- 10 input pre-amp mixer
- 2 zone output
- Each channel has individual master output selector
- Each channel has line/mic/lowcut and phantom power selection
- Input signal LED on each channel
- High pass filter
- Input 1 overall priority, input 2 -3 selectable priority over other inputs
- Input 1- 5 pin din, inputs 2-10 –XLR. Also separate RCA inputs 7-10
- 2 individually balanced XLR master outputs with bass/treble and led indicators
- AC and DC24V operation
- 1U high

no. inputs	10 input (All mic/line switchable)
output zones	2 zone output
rack mountable	Included
power supply	230V AC & 24VDC
dimensions (h x w x d)	44 x 483 x 235mm
'U' height	1U
weight	3.9kg

APART PIR7600 (for remote control see amplifier ancillaries)

Innovative stereo pre-amp mixer with infra red remote control function. Ideal for church or conference applications where system control needs to be remote and not in line of sight. (see separate listing for IR accessories)

- 8 input stereo pre-amplifier/mixer
- Infra-red remote control with remote IR receiver facility (see ancillary section)
- RJ45 wired remote facility
- 6 line, 2 mic inputs (Mic 1 mic/line tel switchable)
- Vox mute on mic 1
- Separate Bass/Mid/Treble control for Mic and line input sections
- 2 stereo output zones
- 1U high

no. inputs	6 line, 2 mic inputs (Mic 1 mic/line tel switchable)
output zones	2 stereo output zones
rack mountable	Included
power supply	230V AC
dimensions (h x w x d)	44 x 483 x 275mm
'U' height	1U
weight	3.5kg

APART PM7400mk11

High quality pre-amp mixer with 2 stereo output zones.

- 6 line, 2 mic inputs (Mic 1 mic/line tel switchable)
- Vox mute on mic 1
- Separate Bass/Mid/Treble control for Mic and line input sections
- 2 stereo output zones
- 1U high

no. inputs	6 line, 2 mic inputs (Mic 1 mic/line tel switchable)
output zones	2 stereo output zones
rack mountable	Included
power supply	230V AC
dimensions (h x w x d)	44 x 483 x 275mm
'U' height	1U
weight	3.1kg

amplification & mixing : pre-amp / mixers

BOSCH PLE-10M2

New highly versatile 2 zone pre-amp mixer.

- 2 separate zones
- 2 zone call station available PLE-2CS (see microphone section)
- Up to 8 Call station daisy chained using Cat 5 data cable
- 6 low noise balanced inputs for mic or line
- 3 separate line inputs
- Further 100volt input, Telephone and a call station input with priority & vox
- Separate tone control for mic inputs and music inputs
- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Built-in chime for announcements
- Zone labelling and setting indicators
- Smart equalizing
- Speech and Music tone control
- AC and 24VDC operation
- Battery charger built-in
- LED VU Meter

no. inputs	6 mic/line and 3 line 100volt input, telephone and a call station input
output zones	2 zone
rack mountable	Included
power supply	230VAC & 24VDC
dimensions (h x w x d)	100 x 430 x 270mm
'U' height	2U
weight	4.5kg

BOSCH LBB1920/00

Highly versatile mixer with comprehensive priority structures. Ideal for Doctors surgeries or applications where structured microphone priority is necessary.

- 4 input mixer
- 3 input priority modes (full mix/first come first serve/ladder priority)
- Each input has tone and volume control
- Each input has a selectable filter for speech
- Each input has a direct output
- 24v restoration on each output
- Interconnects for cascading multiple pre-amps
- Headphone monitor
- VU meter
- 19" mounting brackets included
- 2U high

no. inputs	4 Mic/line
output zones	4 direct output
rack mountable	Included
power supply	230VAC & 24VDC
dimensions (h x w x d)	100 x 430 x 270mm
'U' height	2U
weight	5kg

BOSCH LBB1925/10

Highly versatile pre-amp with 6 zones and priority structure.

- 6 zone call system
- Allows multiple 6 zone call stations to be daisy-chained (see microphone section)
- Separate music and call channels with dedicated tone controls
- 6 levels of priority available
- Routable Music to zones
- Emergency/telephone input
- 24v override output on each zone
- Selectable alarm tone, time signal and chimes
- 3 separate BGM inputs
- Further Mic/line input
- Headphone monitor
- VU meter
- 19" mounting brackets included
- 2U high

no. inputs	7 inputs (1 priority mic, 2 x 6 zones call stations, 4 x line)
output zones	6 zones
rack mountable	Included
power supply	230V AC & 24VDC
dimensions (h x w x d)	100 x 430 x 270mm
'U' height	2U
weight	5kg

CLOUD Z4ii (for Cloud remote control panels see amplifier ancillaries)

World famous mixers offering a complete user friendly solution for multi-zone, multi-function venues.

- 4 zone system
- 6 line inputs with preset gain controls
- Line input 6 can be prioritised on a zone by zone basis
- Facility input on all zones
- Accepts active modules AE1 DM1 & LM1 (see ancillary section)
- Music level and source selection per zone. Also available via RSL6 remote control (see ancillary section)
- 2 mic inputs with volume controls on front panel
- Allows you to select any input separately for each Zone
- Input for Cloud paging mic CDPM4 with priority and zone selection (see microphone section)
- Mic has chime facility
- Separate EQ for mic and music
- All mics have priority over music
- Optional EQ modules for Bose loudspeakers can be fitted to any zone

no. inputs	8 inputs (6 line, 2 mic)
output zones	4 zones
rack mountable	Included
power supply	230V
dimensions (h x w x d)	132.5 x 482.6 x 160mm
'U' height	3U
weight	3.83kg

CLOUD Z8ii (for Cloud remote control panels see amplifier ancillaries)

World famous mixers offering a complete user friendly solution for multi-zone, multi-function venues.

- 8 zone system
- 6 line inputs with preset gain controls
- Line input 6 can be prioritised on a zone by zone basis
- Facility input on all zones
- Accepts active modules AE1 DM1 & LM1 (see ancillary section)
- Music level and source selection per zone. Also available via RSL6 remote control (see ancillary section)
- 2 mic inputs with volume controls on front panel
- Allows you to select any input separately for each Zone
- Input for Cloud paging mic CDPM4 with priority and zone selection (see microphone section)
- Mic has chime facility
- Separate EQ for mic and music
- All mics have priority over music
- Optional EQ modules for Bose loudspeakers can be fitted to any zone

no. inputs	8 inputs (6 line, 2 mic)
output zones	8 zones
rack mountable	Included
power supply	230V
dimensions (h x w x d)	132.5 x 482.6 x 160mm
'U' height	3U
weight	4.4kg

CLOUD CX163 (for Cloud remote control panels see amplifier ancillaries)

The CX163 is ideal for leisure, licensed and retail venues providing six stereo line level inputs, one microphone input with paging mic for each zone. The CX163 has 2 stereo zone outputs and 1 mono utility output (ideal for utility areas such as toilets and foyers). Music level can be controlled remotely by the RL-1 on both stereo zones and when operating in mono, each zone can be split into two sub-zones each with its own remote level control (RL-1). Once installed this compact 1U unit is extremely simple and convenient to operate

- Two zone stereo mixer with mono utility output
- Both stereo zones can be configured to run as mono
- Utility output is constant 0dB
- Utility music source selectable via internal jumper
- Easy to use
- Easy to install and configure
- 6 stereo line inputs
- Line 6 priority over other input sources in Zone 1 only
- Remote music mute
- Microphone access contacts for paging to all 3 zones
- 100Hz high pass filter on all microphone inputs
- Two band microphone EQ
- Remote level control in each zone using RL-1
- Front panel controls give microphone level, music source select and volume
- Optional equaliser modules for Bose loudspeakers can be fitted to any output

no. inputs	7 inputs (6stereo/line 1 mic (per zone))
output zones	2 x stereo + 1 x mono
rack mountable	Yes
power supply	230V
dimensions (h x w x d)	44(MAX) x 482 x 152mm
'U' height	1U
weight	3.5kg

CLOUD CX263 (for Cloud remote control panels see amplifier ancillaries)

The CX263 is the ideal solution for leisure, licensed and retail venues. This compact unit has 6 line level inputs and 2 mic inputs with paging microphone access on Mic 1. The CX263 has one stereo and two mono zones. The line inputs and mics can be independently routed to any output zone via the front panel controls, alternatively the music signals on each zone can be controlled remotely by the RL-1 (level only) or RSL-6 (source and level). Additional remote control functions can be provided by the optional serial interface card (RS232) CDI-S200 which can control the music level and source on each zone, access for Mic 1 on each zone, and access for Mic 2 on each zone. This compact unit is easy to install and operate but has the flexibility to provide a solution for many differing environments.

- 1 stereo zone and 2 mono zones
- Easy to use
- Easy to install and configure
- 6 stereo line inputs
- Line 6 priority over other input sources in all zones
- Remote music mute
- Paging microphone access for Mic 1 only
- Microphone over music priority
- Two band microphone EQ behind front panel facia
- 100Hz high pass filter on all microphone inputs
- Two band music EQ per zone on the rear panel
- Front panel gives Mic 1 level, Mic 2 level, music level and music source selection controls
- Optional equaliser modules for Bose loudspeakers can be fitted to any output

no. inputs	8 inputs (6stereo/line 2 mic (per zone))
output zones	3 zone: 1 x stereo + 2 x mono
rack mountable	Yes
power supply	230V
dimensions (h x w x d)	44(MAX) x 482 x 152mm
'U' height	1U
weight	3.5kg

AUDIO TECHNICA AT-MX341A - 4 channel automatic mic mixer

The AT-MX341a automatic mixer is ideal for meetings, seminars, teleconferencing, worship services, radio and TV broadcasting and A/V applications. All switching is under microprocessor control with proprietary algorithms for instant, seamless operation. An individual priority pre-select switch for each mic/line channel allows choice of one-channel-at-a-time operation, all channels active, or any mix of moderator override. The last microphone on stays on so that ambient sound is never muted. Plus, any number of SmartMixers can be linked to create a system for large multi-mic installations. The priority control system extends throughout the entire chain.

- Four Mic/Line inputs with individual priority pre-select switch for each channel
- Balanced inputs and output are individually switchable between mic and line-level
- Single threshold setting for all channels
- Individual gain controls for each channel
- Switchable manual mode overrides automatic functions
- Master output level control
- TTL logic output signals available to control speaker or camera switching, tally lights, etc.
- 12V phantom power individually selectable for each channel
- Off attenuation for each input adjustable to -20 dB
- Output level meter with Peak and RMS modes
- Mounts in a single 19" half-rack space
- Includes rack mount adapters

AUDIO TECHNICA AT-MX351 - 5 channel automatic mic mixer

The AT-MX351 automatic mixer is ideal for meetings, seminars, teleconferencing, worship services, courtroom proceedings, radio and TV broadcasting and A/V applications. All switching is under microprocessor control with proprietary algorithms for instant, seamless operation. An individual priority pre-select switch for each mic/line channel allows choice of one-channel-at-a-time operation, all active, or any mix of moderator override. The last microphone on stays on so that ambient sound is never muted. Plus, any number of SmartMixers can be linked to create a system for large multi-mic installations. The priority control system extends throughout the entire chain.

- Four automatic Mic/Line inputs, plus Aux in
- Automatic threshold setting
- 48V phantom power individually selectable for each channel
- Limiters on each mic channel prevent individual channel overload
- Balanced inputs and output, selectable Mic/Line-level
- Individual gain controls for each channel
- Switchable manual mode overrides automatic functions
- Master output level control
- Pre- or post-controller audio outputs from Mic/Line channels
- Off attenuation for each input adjustable to -40 dB
- Sub-D connector for TTL output, plus closure-control input for external control of each channel
- NOMA operation provided, can be turned on/off
- Output level meter with Peak and RMS modes
- Monitor headphone output with adjustable level
- Internal AC supply
- Mounts in a single 19" rack space
- Includes rack mount adapters

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AUDIO TECHNICA AT-MX381 - 8 channel automatic mic mixer

Equipped with optional computer control, the AT-MX381 SmartMixer® is the latest addition to Audio-Technica's family of automatic mixers. This microprocessor-controlled automatic mixer is designed to provide automatic mixing functions for installed sound, house of worship, broadcast and conference applications. Engineered for intuitive, easy-to-use operation, the new SmartMixer automatically keeps the number of open microphones to a minimum, bringing background noise and feedback under control and providing increased clarity and audio.

- Eight balanced inputs allow use with both mic- and line-level signals

Each input provides:
- Phantom power (48V), individually selectable
- Individual gain and volume controls
- Gate attenuation (adjustable)
- Low-cut filter (individually selectable via SmartMixer Software)

- An RS232 data port provides a connection point for a PC with included SmartMixer Software
- Compatible with Crestron® and AMX® systems
- External control capability enables the SmartMixer to activate other devices
- Force-On – allows an external contact closure to force its associated input to turn on
- Force-Off – allows an external contact closure to force its associated input to turn off
- Control Voltage Out – a voltage appears when the associated input's gate opens or turns "on"
- Selectable NOMA (Number of Open Mics Attenuated) circuitry helps control feedback
- Priority pre-select feature allows priority of each microphone to be independently assigned
- Last Mic On selectable for continuous room ambiance
- Linking capability for 16 units (up to 128 channels)
- A direct output connection is available for each input
- Equipped with two audio outputs (one balanced, one unbalanced) to drive amplification systems or other equipment
- Monitor headphone output with level control
- Basic functions are configured via front panel; detailed settings through SmartMixer Software
- Mounts in a single 19" rack space via integral rack mount

APART PM1122 SYSTEM

Multi-functional pre-amp system controller.

Imagine a stereo amplifier that can be used in a supermarket with 10 check-out lines. A church with 5 mics that need a a noisegate, or even a professional stereo zone. An AMX, Crestron or cue-controlled meeting room?

Your wish has now become reality : the PM1122 can handle every application and makes the use of a whole string of pre-amps superfluous!

The PM1122 is a high grade manufactured and produced pre-amplifier. It offers a 4-level priority system with emergency input. It has a volume-adjustable chime, and all controls are equipped with clear LED's for an easy overview.

It is possible to connect 5 mic/line inputs with phantom power each. There is a general noisegate for the mic inputs. Each signal is assignable to one or both output zones through a dipswitch selector on the front of the unit. Every input has individual tone, gain and volume control. The 5th mic/line input can be linked to or from another PM1122.

On the output side, the user will find a 2-zone section. Both zones have a selector that makes it possible to switch between 4 line inputs. There is a music level and mic mix level, and a bass and treble control per zone.

The PM1122 has multiple remote options:
The PM1122R is an analogue wall control. It has music level and micro mix level control and a line input selector.

The PM1122RL: an analogue wall control with local input. This control has the same functions as the PM1122R but also has an XLR microphone input and a balanced line input with volume and tone control (mini jack).

Both wired wall controls can be connected with the pre-amplifier through UTP CAT5 cable.

The PM1122 can also be controlled via a PC- application.

The optional PM1122INT remote interface is connected to the pre-amplifier with a standard UTP CAT5 cable per output zone, and to the PC with an RS-232 connection. PC software is included.

Even a wireless remote connection is a possibility! A wireless wall controller (PM1122WW) can be fixed just where the user wants it. It offers source selection, mic volume, and music volume control.

The PM1122W is available in white and silver. This wall controller connects with the PM1122INT interface through the PM1122R, an optional wireless antenna that can be plugged into this interface.

Thanks to all these possibilities, the PM1122 is an extremely versatile pre-amplifier that can be used in almost every imaginable situation!

PM1122 SYSTEM COMPONENTS

PM1122R - analogue wall-mount remote control

- Cat5 cable to PM1122
- Remote music level, audio source select and mic mix level
- Flush panel wall-mounting

PM1122RL - wall-mount remote control with local audio input

- Cat5 cable to PM1122
- Remote music level, audio source select and mic mix level
- Local audio input xlr (balanced mic)and 3.5mm jack (balanced line)
- Local tone and level control
- Flush panel wall-mounting

PM1122WW & WSLV - wireless remote control panels

- Ultra-flat wireless wall control panel
- Source select, mic volume and mic volume control
- Battery operated no power chord required
- Available in white or silver

PM1122RF - receiver module for RF wireless remote panels

- Optional for use with PM1122WW wireless wall control panels
- Accepts multiple remote control panels per zone

PM1122INT - 2 zone digital remote interface

- Cat5 cable to PM1122
- SUB-D9 connector for RS232
- Up to 64 presets programmable via RS232
- 2x6 presets directly accessible via contact closure
- Clear LED status on front panel

www.tsshropshire.co.uk

BOSCH PLE-1MA030

Built to last, all Plena Public Address amplifiers feature excellent sound and speech intelligibility thanks to a smart equalizing approach and built-in limiters. On top of its clean-cut European design, extra items like zone labelling and setting indicators make it a snap to use. Easy expandability with low-overhead cost guarantee that the system will be used for years to come.

- 30 watt 100volt line
- 4 low noise balanced inputs for mic or line with phantom power
- 3 separate line inputs
- Further 100volt input and Telephone input with priority
- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Contact closure and Vox priority
- Built-in chime for announcements
- Zone labelling and setting indicators
- Smart equalizing
- AC and 24VDC operation
- LED VU Meter

output power	30 watts
impedance	100v, 70v and 8 ohm outputs
no. inputs	4 mic/line and 3 line
output zones	1 zone
rack mountable	Included
power supply	230VACPower supply
dimensions (h x w x d)	100 x 430mm x 270mm
'U' height	2U
weight	5kg

BOSCH PLE-1MA060

60 watt single zone

- 60 watt 100volt line
- 4 low noise balanced inputs for mic or line with phantom power
- 3 separate line inputs
- Further 100volt input and Telephone input with priority
- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Contact closure and Vox priority
- Built-in chime for announcements
- Zone labelling and setting indicators
- Smart equalizing
- AC and 24VDC operation
- LED VU Meter

output power	60 watts
impedance	100v, 70v and 8 ohm outputs
no. inputs	4 mic/line and 3 line
output zones	1 zone
rack mountable	Included
power supply	230VAC
dimensions (h x w x d)	100 x 430mm x 270mm
'U' height	2U
weight	8.5kg

BOSCH PLE-1MA120

120 watt single zone

- 120 watt 100volt line
- 4 low noise balanced inputs for mic or line with phantom power
- 3 separate line inputs
- Further 100volt input and Telephone input with priority
- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Contact closure and Vox priority
- Built-in chime for announcements
- Zone labelling and setting indicators
- Smart equalizing
- AC and 24VDC operation
- LED VU Meter

output power	120 watts
impedance	100v, 70v and 8 ohm outputs
no. inputs	4 mic/line and 3 line
output zones	1 zone
rack mountable	Included
power supply	230VAC
dimensions (h x w x d)	100 x 430mm x 270mm
'U' height	2U
weight	10.5kg

BOSCH PLE-2MA120

Highly versatile 120watt 2 zone version with a total of 9 inputs. 2 zone call station available

- 120 watt 100volt line
- 2 separate zones
- 2 zone call station available PLE-2CS
- Up to 8 Call station daisy chained using Cat 5 data cable
- 6 low noise balanced inputs for mic or line
- 3 separate line inputs
- Further 100volt input, Telephone and a call station input with priority & vox
- Separate tone control for mic inputs and music inputs
- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Built-in chime for announcements
- Zone labelling and setting indicators
- Smart equalizing
- Speech and Music tone control
- AC and 24VDC operation
- Battery charger built-in
- LED VU Meter

output power	120 watts
impedance	100v, 70v and 8 ohm outputs
no. inputs	6 mic/line and 3 line
output zones	2 zone
rack mountable	Included
power supply	230VAC & 24VDC
dimensions (h x w x d)	100 x 430mm x 270mm
'U' height	2U
weight	10.5kg

BOSCH PLE-2MA240

Highly versatile 240watt 2 zone version with a total of 9 inputs. 2 zone call station available

- 240 watt 100volt line
- 2 separate zones
- 2 zone call station available PLE-2CS
- Call station uses Cat 5 data cable
- 6 low noise balanced inputs for mic or line
- 3 separate line inputs
- Further 100volt input, Telephone and a call station input with priority & vox
- Separate tone control for mic inputs and music inputs
- RJ45 connection for remote wall plate WP3S2Z (see ancillary section)
- Built-in chime for announcements
- Zone labelling and setting indicators
- Smart equalizing
- Speech and Music tone control
- AC and 24VDC operation
- Battery charger built-in
- LED VU Meter

output power	240 watts
impedance	100v, 70v and 8 ohm outputs
no. inputs	6 mic/line and 3 line
output zones	2 zone
rack mountable	Included
power supply	230VAC & 24VDC
dimensions (h x w x d)	100 x 430mm x 270mm
'U' height	2U
weight	12.5kg

BOSCH PLN-2A10120

The Plena BGM/paging system is the versatile all-in-one solution to cover all needs for background music (BGM), making announcements and paging people. This high-performance yet affordable unit is very easy to install and operate. It is typically used in shops, supermarkets, restaurants, bars, schools, canteens, gyms, garages and other places where BGM creates the right atmosphere.

- All-in-one solution for background music and paging
- DVD/CD-player for video and audio
- Supports MP3, JPEG, and multi-format video outputs
- FM/AM tuner with 10 presets and digital control
- Dual Zone 120 watt 100 volt line mixer amplifier
- Volume control per zone
- Remote control

output power	120 watts
impedance	100volt line and 8ohm output
no. inputs	2 balanced XLR mic inputs 1 RCA line input
output zones	2 zone
rack mountable	Included
power supply	230VAC & 24VDC
dimensions (h x w x d)	144mm x 430mm x 320mm
'U' height	3U
weight	11.6kg

APART MA35

- Compact 35 watt 100 volt line mixing amplifier
- 3 mic inputs with phantom power (via internal switch)
- 2 line inputs
- 2 level priority system (Vox and Contact closure)
- Integrated 2 tone chime with adjustable volume
- Built-in dynamic limiter (-3dB)
- AC and 12Vdc operation
- Optional 19" mounting bracket available MA35-19
- RoHS Compliant

output power	35 watts output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	4 (2mic, 1mic/line, 1line)
output zones	1 zone
rack mountable	optional
power supply	230VAC & 12VDC
dimensions (h x w x d)	88mm x 272mm x 286mm
'U' height	2U
weight	4.75kg

APART MA65

- Compact 65 watt 100 volt line mixing amplifier
- 3 mic inputs with phantom power (via internal switch)
- 2 line inputs
- 2 level priority system (Vox and Contact closure)
- Integrated 2 tone chime with adjustable volume
- Built-in dynamic limiter (-3dB)
- AC and 24Vdc operation
- Optional 19" mounting bracket available MA35-19
- RoHS Compliant

output power	65 watts output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	4 (2mic, 1mic/line, 1line)
output zones	1 zone
rack mountable	optional
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 272mm x 286mm
'U' height	2U
weight	5.95kg

APART MA125

- 120 watt 100 volt line amplifier
- 4 microphone inputs and 4 line inputs
- Switchable Phantom power on mic inputs
- Input 1 has 4 connection options Balanced XLR, 5 pin Din or Euroblock on rear, 6.3mm Jack on front
- Mic 2-3 balanced XLR and 6.3mmJack input, Mic 4 by balanced XLR
- 4 x line inputs via RCA/phono. Input sensitivity matched for CD/Tuner/Aux
- Priority override of music on line 1 via vox mute variable level and by closing contact option (euroblock or 5pin din)
- LED Mute indicator
- Emergency override/Tel input (highest priority) via closing contact
- Input level control on Tel input
- Graphic/loop output and Power amp input
- Bass Treble control
- 24VDC output for switching override relays
- LED VU Meter

output power	120 watts output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	4 microphone inputs and 4 line inputs
output zones	1 zone
rack mountable	included
power supply	115 and 230VAC and 24VDC
dimensions (h x w x d)	88mm x 483mm x 230mm
'U' height	2U
weight	9kg

APART MA200

MA200 – 200 watt full feature 100volt line mixer amplifier.

- 4 microphone inputs and 4 line inputs
- 4 loudspeaker output zones. Can be switched on/off with LED indicator
- Zone 4 can switch to music only, mic only or both
- Switchable Phantom power on mic inputs
- Input 1 has 5 connection options Balanced XLR/combo input, 5 pin Din or euroblock, on rear and 6.3mm Jack on front
- Mic 2-3 -4 balanced XLR
- 4 x line inputs via RCA/phono. Input sensitivity matched for CD/Tuner/Aux
- 3 level Priority system:

1. Emergency override/Tel input (highest priority) via closing contact
2. Vox mute on input 1 overrides all other inputs (adjustable)
3. Contact closure (euroblock or 5pin din) mutes all line inputs

- LED Mute indicator
- Input level control on Tel input
- Integrated 2 tone chime
- Graphic/loop output and Power amp input
- Bass Treble control
- 24VDC output for switching override relays
- LED VU Meter
- 19" rack mountable

output power	200 watts
impedance	100v/70v and 8ohm speaker outputs
no. inputs	4 microphone inputs and 4 line inputs
output zones	4 zone
rack mountable	included
power supply	115 and 230VAC and 24VDC
dimensions (h x w x d)	88mm x 430mm x 356mm
'U' height	2U
weight	12.1kg

APART MA200R

MA200 – 200 watt full feature 100volt line mixer amplifier c/w built-in FM/AM digital tuner.

- 200 watt 100 volt line amplifier
- Built-in FM/AM digital tuner with 10 presets per band and memory scan facility
- 4 microphone inputs and 4 line inputs
- 4 loudspeaker output zones. Can be switched on/off with LED indicator
- Zone 4 can switch to music only, mic only or both
- Switchable Phantom power on mic inputs
- Input 1 has 5 connection options Balanced XLR/combo input, 5 pin Din or euroblock, on rear and 6.3mm Jack on front
- Mic 2-3 -4 balanced XLR
- 4 x line inputs via RCA/phono. Input sensitivity matched for CD/Tuner/Aux
- 3 level Priority system:

1. Emergency override/Tel input (highest priority) via closing contact
2. Vox mute on input 1 overrides all other inputs (adjustable)
3. Contact closure (euroblock or 5pin din) mutes all line inputs

- LED Mute indicator
- Input level control on Tel input
- Integrated 2 tone chime
- Graphic/loop output and Power amp input
- Bass Treble control
- 24VDC output for switching override relays
- LED VU Meter
- 19" rack mountable

output power	200 watts
impedance	100v/70v and 8ohm speaker outputs
no. inputs	4 microphone inputs and 4 line inputs
output zones	4 zone
rack mountable	included
power supply	115 and 230VAC and 24VDC operation
dimensions (h x w x d)	88mm x 430mm x 356mm
'U' height	2U
weight	12.5kg

APART MA200CDR

MA200 – 200 watt full feature 100volt line mixer amplifier c/w built-in Programmable CD player and FM/AM digital tuner.

- Built-in CD player with MP3 playback, program, random, repeat and continuous play
- Built-in FM/AM digital tuner with 10 presets per band and memory scan facility
- 4 microphone inputs and 4 line inputs
- 4 loudspeaker output zones. Can be switched on/off with LED indicator
- Zone 4 can switch to music only, mic only or both
- Switchable Phantom power on mic inputs
- Input 1 has 5 connection options Balanced XLR/combo input, 5 pin Din or euroblock, on rear and 6.3mm Jack on front
- Mic 2-3 -4 balanced XLR
- 4 x line inputs via RCA/phono. Input sensitivity matched for CD/Tuner/Aux
- 3 level Priority system:

1. Emergency override/Tel input (highest priority) via closing contact
2. Vox mute on input 1 overrides all other inputs (adjustable)
3. Contact closure (euroblock or 5pin din) mutes all line inputs

- LED Mute indicator
- Input level control on Tel input
- Integrated 2 tone chime
- Graphic/loop output and Power amp input
- Bass Treble control
- 24VDC output for switching override relays
- LED VU Meter
- 19" rack mountable

output power	200 watts
impedance	100v/70v and 8ohm speaker outputs
no. inputs	4 microphone inputs and 4 line inputs
output zones	4 zone
rack mountable	included
power supply	115 and 230VAC and 24VDC operation
dimensions (h x w x d)	88mm x 430mm x 356mm
'U' height	2U
weight	13.5kg

CLOUD MPA-626 - General Purpose 150W Mixer Amplifier (for Cloud remote control panels see amplifier ancillaries)

The Cloud MPA-626 provides a package as comprehensive and as complete as any product in the range. This product offers 6 line inputs, 2 mic inputs with same or descending priority and 150W of Cloud reliable power. Its integrated relays for 100V attenuation restoration, chime sounder and the ability to directly connect virtually any music or line level input plus 2 microphones in pretty much any configuration provides the solution many venues might demand. A connection to accept active module DM-1 further extends the capabilities of this versatile product. The MPA-626 is the ideal solution for a wide range of Public Address applications such as factories, warehouses, sports halls etc.

- 6 line inputs with gain control
- Line 6 priority over other inputs
- 2 Mic inputs with equal or descending priority
- Separate EQ for music and mic
- Music level selection with remote control RL-1
- Integrated relays for 100V attenuator restoration
- Integrated chime
- Connection for module DM-1
- Variable line output
- Optional equaliser modules for Bose loudspeakers can be fitted

output power	150w
impedance	100v, 4ohm, 2ohm
no. inputs	6 line level + 2 x mic
output zones	1 zone
rack mountable	yes
power supply	230VAC
dimensions (h x w x d)	88 x 483 x 300mm
'U' height	2U
weight	8.7kg

JEDIA MOBILE35 (for all Jedia modules see amplifier ancillaries - CD modules not available for this model)

Compact 35 watt mixer amp with module slot and 230VAC and 12Volt DC operation.

- 35 watt 100 volt line
- Vox priority on Mic 1 and 2
- Telephone input
- Module input slot (see related products)
- VU meter
- 230VAC and 12v DC operation

output power	35 watts
impedance	100 volt and 4-16ohm outputs
no. inputs	3 microphone inputs + 2/3 Line inputs possible
output zones	1 zone
rack mountable	no
power supply	230VAC &12VDC
dimensions (h x w x d)	88mm x 375mm x 260mm
'U' height	-
weight	5.4kg

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JEDIA MOBILE60 (for all Jedia modules see amplifier ancillaries - CD modules not available for this model)

Compact 60 watt mixer amp with module slot and 230VAC and 12Volt DC operation.

- 60 watt 100 volt line
- Vox priority on Mic 1 and 2
- Telephone input
- Module input slot (see related products)
- VU meter
- 230VAC and 12v DC operation

output power	60 watts
impedance	100 volt and 4-16ohm outputs
no. inputs	3 microphone inputs + 2/3 Line inputs possible
output zones	1 zone
rack mountable	no
power supply	230VAC &12VDC
dimensions (h x w x d)	88mm x 375mm x 260mm
'U' height	-
weight	6.6kg

JEDIA JPA1120 (for all Jedia modules see amplifier ancillaries)

JPA1120 – Versatile 120 watt 100 volt line mixer amplifier with module input slot.

- 120 watt 100 volt line
- 4 microphone inputs + 4 Line inputs possible
- Inputs 2,3 and 4 Mic/line switchable
- Vox priority on Mic 1
- Telephone input
- Music on Hold
- Module input slot (see related products)
- Pre amp out/amp in
- Remote chime terminals
- 3 selectable speaker zones
- VU meter
- AC and 24v DC operation

output power	120 watts
impedance	100v
no. inputs	4 microphone inputs + 4 Line inputs possible
output zones	3 x speaker circuits
rack mountable	optional
power supply	230VAC &24VDC
dimensions (h x w x d)	110mm x 420mm x 320mm
'U' height	3U
weight	12kg

JEDIA JPA1120A (for all Jedia modules see amplifier ancillaries)

- 120watt, 100 volt line operation
- 5 independently attenuated output zones
- Individually addressable zones + all call from amp or remote call station. See JRC10 microphone section
- Priority mic input 1 via 5 pin din (JPTT10 - see microphone section)
- 24vdc output to operate override relays
- 3 mic/line inputs XLR with variable input gain control selectable phantom power and each with selectable (by dip switch) priority over music
- 2 further RCA line inputs
- Bass and treble control on each input
- Telephone paging input with night ringer facility for factories etc
- Module input for various audio source modules see ancillary products for JTP10 tuner, CP10 cassette, JCR10 cass/tuner, JDM10A digital message store, JCP10A CD, JCDR10A CD/Tuner
- RCA Record/AFILS output
- 6.3mm Jack Pre-amp out and 6.3mm Jack Amp in
- Variable level chime facility
- Emergency override by closing contact
- Two tone variable volume siren
- Direct 4ohm output
- Remote power activation via closing contact
- LED VU Meters
- AC and 24VDC operation

output power	120 watts
impedance	100v
no. inputs	7 (1 priority mic, 1x five zones(up to 3), 3 mic/line, 2 line)
output zones	5 zones
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	133mm x 430mm x 352mm
'U' height	3U
weight	13kg

JEDIA JPA1240A (for all Jedia modules see amplifier ancillaries)

- 240watt, 100 volt line operation
- 5 independently attenuated output zones
- Individually addressable zones + all call from amp or remote call station. See JRC10 related products
- Priority mic input 1 via 5 pin din (JPTT10 - see related products)
- 24vdc output to operate override relays
- 3 mic/line inputs XLR with variable input gain control selectable phantom power and each with selectable (by dip switch) priority over music
- 2 further RCA line inputs
- Bass and treble control on each input
- Telephone paging input with night ringer facility for factories etc.
- Input slot for Cat5 data receiver to accept up to 3 x 5 zone remote call stations. See JRC10 in related products
- Module input for various JDM audio source modules see related products for JTP10 tuner, CP10 cassette, JCR10 cass/tuner, JDM10A digital message store, JCP10A CD, JCDR10A CD/Tuner
- RCA Record/AFILS output
- 6.3mm Jack Pre-amp out and 6.3mm Jack Amp in
- Variable level chime facility
- Emergency override by closing contact
- Two tone variable volume siren
- Direct 4ohm output
- Remote power activation via closing contact
- LED VU Meters
- AC and 24VDC operation

output power	240 watts
impedance	100v
no. inputs	7 (1 priority mic, 1x five zones(up to 3), 3 mic/line, 2 line)
output zones	5 zones
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	133mm x 430mm x 352mm
'U' height	3U
weight	14kg

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JEDIA JPS3600 (for all Jedia modules see amplifier ancillaries)

- 360 watt 100 volt line
- 4 mic/line inputs and 3 dedicated line inputs
- Module input for various JDM audio source modules see related products for JTP10 tuner, JCP10 cassette, JCR10 cass/tuner, JDM10A digital message store, JCP10A CD, JCDR10A CD/Tuner
- Input 1 XLR (rear) and 6.3mm Jack (front) has Vox priority over all inputs
- Input 2 XLR and Euroblock terminals with contact closure for override of aux and module signals
- Input3 and 4 Euroblock terminals with contact closure for override of aux and module signals
- Inputs 1-4 have switchable phantom power and variable mute/ chime and siren levels all inputs are balanced.
- Inputs 5-7 RCA line level inputs unbalanced
- 5 individually attenuated speaker output circuits + 1 direct 100volt line and 8ohm output
- Bass and Treble control
- Variable speed cooling fan
- Thermal protection
- Short circuit protection
- Remote power activation via closing contact
- RCA Pre-amp out and RCA Amp in
- LED VU Meters
- AC and 24VDC operation.
- 3U high
- RoHS Compliant

output power	360 watts
impedance	100volt line and 8ohm output
no. inputs	7 (4 mic/line inputs and 3 dedicated line inputs)
output zones	5 zones
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	133mm x 430mm x 352mm
'U' height	3U
weight	19.5kg

JEDIA JPS4800 (for all Jedia modules see amplifier ancillaries)

- 480 watt 100 volt line
- 4 mic/line inputs and 3 dedicated line inputs
- Module input for various JDM audio source modules see related products for JTP10 tuner, JCP10 cassette, JCR10 cass/tuner, JDM10A digital message store, JCP10A CD, JCDR10A CD/Tuner
- Input 1 XLR (rear) and 6.3mm Jack (front) has Vox priority over all inputs
- Input 2 XLR and Euroblock terminals with contact closure for override of aux and module signals
- Input3 and 4 Euroblock terminals with contact closure for override of aux and module signals
- Inputs 1-4 have switchable phantom power and variable mute/ chime and siren levels all inputs are balanced
- Inputs 5-7 RCA line level inputs unbalanced
- 5 individually attenuated speaker output circuits + 1 direct 100volt line and 8ohm output
- Bass and Treble control
- Variable speed cooling fan
- Thermal protection
- Short circuit protection
- Remote power activation via closing contact
- RCA Pre-amp out and RCA Amp in
- LED VU Meters
- AC and 24VDC operation.
- 3U high
- RoHS Compliant

output power	480 watts
impedance	100volt line and 8ohm output
no. inputs	4 mic/line inputs and 3 dedicated line inputs
output zones	5 zones
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	133mm x 430mm x 352mm
'U' height	3U
weight	21kg

DENON DNA100P

The DN-A100P is the P Series' entry level mixer amplifier for commercial installation. Uncomplicated layout and simple operation, along with 70w per channel power output make it an entirely suitable option for two channel amplification in pubs, bars, shops, gyms and other small to medium sized AV environments.

- 70 watts per channel into 4 ohms
- 2 speaker circuits with A/B switching
- IR remote control supplied
- 5 line inputs RCA
- 2 tape circuits
- Phono input
- Tone controls
- 3U

DENON DNA200P

For environments where sound quality and power output are of high importance the DN-A200P stereo integrated amplifier is the perfect solution. Twin, switchable speaker outputs, multiple in/outs, phono input and IR control render it perfect for high end corporate av, education and entertainment venues.

- 85 watts per channel into 4 ohms
- 2 speaker circuits with A/B switching
- IR remote control supplied
- 5 line inputs RCA
- 2 tape circuits
- Phono input
- Tone controls
- Full record out
- 3U

DENON DNA300P

For environments where sound quality and power output are of high importance the DN-A300P stereo integrated amplifier is the perfect solution. Twin, switchable speaker outputs, multiple in/outs, phono input and IR control render it perfect for high end corporate av, education and entertainment venues.

- 100 watts per channel into 4 ohms
- 2 speaker circuits with A/B switching
- IR remote control supplied
- 5 line inputs RCA
- 2 tape circuits
- Phono input
- Tone controls
- Full record out
- 3U

CLOUD 36/50 - integrated two zone plus utility mixer amplifier (for Cloud remote control panels see amplifier ancillaries)

The Cloud 36/50 provides both power and control for venue sound systems from a single, cost effective unit. Ideal for shops, pubs, restaurant and bars, the 36/50 combines the features and versatility of our best selling zone mixer with the reliability of our rugged, 50W amplifier modules. This remarkable product offers 6 music source connections, plus 1 microphone input, fully configurable into 2 main output zones, plus a third 'utility' output, all at 50W. This third output may be used to provide sound in peripheral areas such as storerooms, toilets, foyers and corridors, or it can be used as a slave to zone 1, effectively doubling the power available to that zone.

- 2 zone mixer/amplifier with utility output
- 6 line inputs, 1 mic input with paging options for zone 1, zone 2 and utility output
- Music level and source selection with remote control RSL-6
- 3 x 50W for Z1, Z2 and utility output with dynamic clip limiters on every amplifier
- The 50W utility amplifier can provide zone 1 with 100W
- Optional 3 x 40W 100V or 70V internal module (CXL-3120)
- Separate EQ for music and mic signals
- Optional equaliser modules for Bose loudspeakers can be fitted to any output

CLOUD 46/50 - 4 zone integrated mixer amp with 4 x 50W amps (for Cloud remote control panels see amplifier ancillaries)

The 46/50 offers simple, direct connection of two microphones and six music sources which can be routed to feed four different output zones with up to 50W of clean audio power. The 46/50's music programme and level can be controlled remotely. A paging facility is avilable with the optional CDPM paging mic. So, if a simple one-box solution is required for a four zone venue, look no further than the Cloud 46/50.

- 4 zone mixer/amplifier
- 4 x 50W with dynamic clip limiters on every zone
- Mic 1 priority over Mic 2
- Line 6 input priority (zone 1 only) with adjustable release time
- 6 line inputs, 2 mic inputs with voice operated priority over the music
- Music level and source selection with remote control RSL-6 (or RL-1 -level only)
- Facility input (zone 1 only) for active modules DM-1 and LM-1
- Amplifier link feature when used on 2 zone or 3 zone systems
- Dedicated CDPM paging mic with chime available
- Optional equaliser modules for Bose loudspeakers can be fitted to any zone
- Utility output
- Optional 4 x 70W 100V or 70V internal module (CXL-4160)
- Remote music mute for Fire Alarm interface
- Installer settings behind an anti-tamper panel
- Forced cooling by vari-speed fan

APART PA240P

Extremely flexible, rugged and cost effective slave amplifier.

- Ultra reliable 240w 100volt line amplifier
- High quality audio amp.
- Overload, short circuit and heat protection
- 0dB Program input and priority input c/w variable volume
- Bass and treble control
- 24V output for override relay activation
- High quality Combo XLR/Jack inputs
- Priority Input connections via Combo or Euroblock
- AC and 24VDC operation
- Variable speed fan
- LED VU Meter
- 19" rack mounts

output power	240 watts output
impedance	100v, 70v and 8ohm outputs
no. inputs	Program and priority input
output zones	1 zone
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 430mm x 366mm
'U' height	2U
weight	14.1kg

ELECTRO-VOICE PA1250T - 1 x 250w single channel power amplifier

The Electro-Voice® PA1250T is from the PA series of professional commercial audio amplifiers. The direct path airflow design reduces the heat build-up significantly and allows for more reliable operation in slim two rack space chassis. The audio performance of the PA1250T is superior and fulfills the requirements in many demanding long term applications from sound reinforcement, paging or life safety installations.

- 1 x 250watt @ 100volt line or 250 watts @ 4ohm
- Stepped rear level controls
- Complete protection package
- Selectable 50Hz or 300Hz high pass filter for each channel
- Phoenix type input and output connectors
- High efficiency circuit design

output power	250 watts output
impedance	100, 70 & 50 voltoutputs
no. inputs	Program input via phoenix connector
output zones	1 zone
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 483mm x 406mm
'U' height	2U
weight	16.5kg

JDM PA112CP

Compact 120watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance.

- Program with priority override input
- Local monitor output
- Current protection
- Overheat and short circuit protected
- Soft start circuitry
- Automatic variable speed fan
- 400Hz speech filter switch
- AC and 24v DC operation
- LED VU Meter
- 19" rack mounts

output power	120 watts output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	Program with priority override input
output zones	1 zone
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 483mm x 374mm
'U' height	2U
weight	10.5kg

JDM PA124CP

Compact 240watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance.

- Program with priority override input
- Local monitor output
- Current protection
- Overheat and short circuit protected
- Soft start circuitry
- Automatic variable speed fan
- 400Hz speech filter switch
- AC and 24v DC operation
- LED VU Meter
- 19" rack mounts

output power	240 watts output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	Program with priority override input
output zones	1 zone
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 483mm x 374mm
'U' height	2U
weight	12.5kg

JDM PA148CP

Compact 480watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance.

- Program with priority override input
- Local monitor output
- Current protection
- Overheat and short circuit protected
- Soft start circuitry
- Automatic variable speed fan
- 400Hz speech filter switch
- AC and 24v DC operation
- LED VU Meter
- 19" rack mounts

output power	480 watts output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	Program with priority override input
output zones	1 zone
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 483mm x 374mm
'U' height	2U
weight	15.5kg

BOSCH PLE-1P120

New cost effective 120 watt 100volt slave amplifier from Bosch.

- Very high audio performance power amps
- Can be used to boost Plena Voice alarm systems with system monitoring
- XLR and jack input with XLR and Jack loop through outputs
- 100volt line input. Ideal for remote location booster amps
- Temperature controlled fan
- AC and 24VDC operation
- Built-in battery charger
- LED VU Meter

output power	120 watts
impedance	100v, 70v and 8 ohm outputs
no. inputs	1 XLR input
output zones	1 zone
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	100mm x 430mm x 270mm
'U' height	2U
weight	10.5kg

BOSCH PLE-1P240

New cost effective 240 watt 100volt slave amplifier from Bosch.

- Very high audio performance power amps
- Can be used to boost Plena Voice alarm systems with system monitoring
- XLR and jack input with XLR and Jack loop through outputs
- 100volt line input. Ideal for remote location booster amps
- Temperature controlled fan
- AC and 24VDC operation
- Built-in battery charger
- LED VU Meter

output power	240 watts
impedance	100v, 70v and 8 ohm outputs
no. inputs	1 XLR input
output zones	1 zone
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	100mm x 430mm x 270mm
'U' height	2U
weight	12.5kg

BOSCH LBB1938/20

Legendary Bosch Quality, solid performing slave amplifiers.

- 480 watts 100 volt line
- Very high audio performance power amps
- Can be used to boost Plena Voice alarm systems with system monitoring
- XLR and jack input with XLR and Jack loop through outputs
- 100volt line input. Ideal for remote location booster amps
- 24v override relay output on 480watt model
- Temperature controlled fan
- AC and 24VDC operation
- LED VU Meter

output power	480 watts output
impedance	100v, 70v and 8 ohm outputs
no. inputs	XLR and jack input
output zones	1 zone
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	145mm x 430mm x 370mm
'U' height	3U
weight	25kg

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APART PA2240BP

The Apart PA2240BP is a bridgeable and fully equipped 2 channel 100 Volt power amplifier.

The amplifier can be used as a double channel amplifier of 2 x 240 Watts in 100 Volt or it can be bridged into a 1 x 480 Watt power amplifier in 100 Volt. Both channels have a program and priority input with independent gain control. The priority input can be activated by contact closure and as soon as this contact is closed, 24V output power becomes available (e.g. can be used to switch the relay of a volume control). Both channels of the amplifier have bass and treble tone control.

The PA2240BP operates on 230V AC and 24V DC. Significantly, the unit can easily be used in evacuation systems compliant to the EN60849 regulation.

As all the controls of the PA2240BP are located at the back panel, changes of the amplifier's settings by unauthorised or unqualified people will most likely be prevented.

Use of quality components and the built in dynamic limiter at -3dB certainly contributes to increased reliability.

- Input : Program : Balanced Euroblock, 0 dB -10k - Adjustable volume by trimmer
- Input : Priority : Balanced Euroblock, 0 dB - 10k - Adjustable volume by trimmer
- Output : Loudspeaker output : channel 1 & 2: 100V - 70V 50V - **4W (monitor)**
- Output : Priority output : 2 x 24V, activated by contact closure (Max 0.6A)
- Output power RMS Rated : 2 x 240 watt or 1 x 480 watt (bridged mode)
- Tone control : Bass : 100 Hz: +10 dB / -14 dB
- Tone control : Treble : 10 kHz: +10 dB / -14 dB
- Frequency response : 35 Hz - 22 kHz
- Signal to Noise ratio : > 95 dB
- Total Harmonic Distortion : < 0.5%
- Dimensions (H x W x D) : 88 x 430 x 412 mm (Detachable 19" brackets included)

JDM PA212CP

Compact 2 channel 120watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance.

- Program with priority override input
- Input routing for parallel connection
- Series connection for single output capability
- Local monitor output
- Current protection
- Overheat and short circuit protected
- Soft start circuitry
- Automatic variable speed fan
- 400Hz speech filter switch
- AC and 24v DC operation
- LED VU Meter
- 19" rack mounts

output power	2 x 120 watt outputs
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	Program with priority override input
output zones	2 zones
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 483mm x 374mm
'U' height	2U
weight	15kg

JDM PA224CP

Compact 2 channel 240watt 100volt slave amp using high quality Toroidal transformers for excellent audio as well as sturdy reliable performance.

- Program with priority override input
- Input routing for parallel connection
- Series connection for single output capability
- Local monitor output
- Current protection
- Overheat and short circuit protected
- Soft start circuitry
- Automatic variable speed fan
- 400Hz speech filter switch
- AC and 24v DC operation
- LED VU Meter
- 19" rack mounts

output power	2 x 240 watt output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	Program with priority override input
output zones	2 zones
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 483mm x 374mm
'U' height	2U
weight	18kg

ELECTRO-VOICE PA2250T - 2 x 250watt 100 volt line power amplifier

The Electro-Voice® PA2250T is from the PA series of professional commercial audio amplifiers. The direct path airflow design reduces the heat buildup significantly and allows more amplifier channels and output power in slim two rack space chassis. The audio performance of the PA2250T is superior and fulfills the requirements in many demanding long term applications from sound reinforcement, paging or life safety instal

- 2 x 250watt @ 100volt line or 270 watts @ 4ohm
- 2U rack space chassis
- Stepped rear level controls
- Bridged mono output gives single 540watt output at 8ohm
- Complete protection package
- Selectable 50Hz or 300Hz high pass filter for each channel
- Phoenix type input and output connectors
- High efficiency circuit design

output power	2 x 270 watts output
impedance	100, 70 ,50 volt & 4ohm outputs
no. inputs	2 x Program input via phoenix connector
output zones	2 separate channels or 1 x bridged 8ohm
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 483mm x 406mm
'U' height	2U
weight	23.5kg

ELECTRO-VOICE PA2400T - 2 x 400watt 100 volt line power amp

The Electro-Voice® PA2400T is from the PA series of professional commercial audio amplifiers. The direct path airflow design reduces the heat buildup significantly and allows for more amplifier channels and output power in slim two rack space chassis. The audio performance of the PA2400T is superior and fulfills the requirements in many demanding long term applications from sound reinforcement, paging or life safety installations.

- 2 x 430watt @ 100volt line or 430watts @ 4ohm
- 2U rack space chassis
- Stepped rear level controls
- Bridged mono output gives single 860watt output at 8ohm
- Complete protection package
- Selectable 50Hz or 300Hz high pass filter for each channel
- Phoenix type input and output connectors
- High efficiency circuit design

output power	2 x 430 watts output
impedance	100, 70 ,50 volt & 4ohm
no. inputs	2 x Program input via phoenix connector
output zones	2 separate channels or 1 x bridged 8ohm
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	88mm x 483mm x 406mm
'U' height	2U
weight	26kg

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JDM PA412CP

Highly versatile 4 x 120watt per channel 100 volt slave amplifier. Utilizes toroidal transformers for excellent audio reproduction.

- Program with priority override input
- Input routing for parallel or multiple connection
- Series connection for single or double output capability
- Local monitor output
- Current protection
- Overheat and short circuit protected
- Soft start circuitry
- Automatic variable speed fan
- 400Hz speech filter switch
- AC and 24v DC operation
- LED VU Meter
- 19" rack mounts

output power	4 x 120 watt output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	Program with priority override input
output zones	4 zones
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	133mm x 483mm x 377mm
'U' height	3U
weight	25kg

JDM PA424CP

Highly versatile 4 x 240watt per channel 100 volt slave amplifier. Utilizes toroidal transformers for excellent audio reproduction.

- Program with priority override input
- Input routing for parallel or multiple connection
- Series connection for single or double output capability
- Local monitor output
- Current protection
- Overheat and short circuit protected
- Soft start circuitry
- Automatic variable speed fan
- 400Hz speech filter switch
- AC and 24v DC operation
- LED VU Meter
- 19" rack mounts

output power	4 x 240 watt output
impedance	100 volt, 70 volt and 8ohm outputs
no. inputs	Program with priority override input
output zones	4 zones
rack mountable	included
power supply	230VAC & 24VDC
dimensions (h x w x d)	133mm x 483mm x 377mm
'U' height	3U
weight	28kg

CLOUD CX-A4

The Cloud CX-A4 is a versatile and innovative multi channel amplifier. It exhibits low levels of noise and distortion, and utilises the highest quality components, ensuring outstanding sound quality and rugged durability. Plug in VCA modules are available for applications where remote level control is required and a combined VCA and peak limiter module is available. Line distribution systems of both 70V and 100V are also catered for with the optional high performance transformer modules.

- 4 channel, 4 x 120W
- Connection for one of three optional modules
- VCA-2 2 channel remote level control
- 2 channel equaliser module for Bose model 8 or model 32 loudspeakers
- Optional external 100W 70V/100V line transformer module and rack housing available(CXL100T & CLX800)
- Input routing options simplify terminations when some channels share a signal
- Comprehensive protection ciruitry
- LED indicators for signal, clip and protect
- Forced cooling by 2 speed DC fan

CLOUD CX-A6

The Cloud CX-A6 is a versatile and innovative multi channel amplifier. It exhibits low levels of noise and distortion, and utilises the highest quality components, ensuring outstanding sound quality and rugged durability. Plug in VCA modules are available for applications where remote level control is required and a combined VCA and peak limiter module is available. Line distribution systems of both 70V and 100V are also catered for with the optional high performance transformer modules.

- Channel, 6 x 120W
- Connection for one of three optional modules
- VCA-2 2 channel remote level control
- 2 channel equaliser module for Bose model 8 or model 32 loudspeakers
- Optional external 100W 70V/100V line transformer module and rack housing available(CXL100T & CLX800)
- Input routing options simplify terminations when some channels share a signal
- Comprehensive protection ciruitry
- LED indicators for signal, clip and protect
- Forced cooling by 2 speed DC fan

CLOUD CXA450

The Cloud CX-A450 is a versatile and innovative multi channel amplifier. It exhibits low levels of noise and distortion, and utilises the highest quality components, ensuring outstanding sound quality and rugged durability. Plug in VCA modules are available for applications where remote level control is required. Line distribution systems of both 70V and 100V are also catered for with the optional high performance transformer modules.

- 4 channel, 4 x 50W
- Optional modules for remote level control of any channel, VCA-5
- Optional equaliser modules for Bose loudspeakers can be fitted to any channel
- Optional is a 4 x 40W 70V/100V internal module (CXL-4160)
- Optional external 40W 70V/100V line transformer module available (CXL-40T
- Input routing operations simplify terminations when some channels share a signal
- Comprehensive protection circuitry including dynamic clip protection
- LED indicators for signal, clip and protect
- Forced cooling vari-speed DC fan

CLOUD CXA850

The Cloud CX-A850 is a versatile and innovative multi channel amplifier. It exhibits low levels of noise and distortion, and utilises the highest quality components, ensuring outstanding sound quality and rugged durability. Plug in VCA modules are available for applications where remote level control is required. Line distribution systems of both 70V and 100V are also catered for with the optional high performance transformer modules.

- 8 channel, 8 x 50W
- Optional modules for remote level control of any channel, VCA-5
- Optional equaliser modules for Bose loudspeakers can be fitted to any channel
- Optional external 40W 70V or 100V line transformer module available (CXL-40T)
- The CXL-800 is a 2U rack mounted housing for 8 x CXL-40T
- Input routing options simplify terminations when some channels share a signal
- Comprehensive protection circuitry including dynamic clip protection
- LED indicators for signal, clip and protect
- Forced cooling vari-speed DC fan

APART PA8250

This versatile 19" - 8 channel amplifier is compact but yet powerful and provides 8 x 250 W of program power in 4 Ohm use. For higher power requirements, the amp can be bridged per 2 channels with 4 x500 W in 8 Ohm bridged mode as a result.

It has very good cooling thanks to 2 high efficiency fans with 3-step control that kick in once the temperature exceeds 50°C.

Thanks to its input signal linking it is possible to get one single signal through all the output channels. The high pass filters takes care of unwanted rumble or low frequency sounds.

Inputs can be connected through RCA-cinch or Euroblock. The 8 speaker terminals are Euroblock as well, so there is no need for soldering in those difficult on-site conditions.

The PA8250's 8-channel architecture makes it easy to set up volumes for all 8 zones individually. This power amp is especially suitable for multiroom- or matrix systems or places like cafés, sportsbars or pubs : venues where you prefer different music levels in different areas.

A combination with the APart PT8210 transformer provides a maximum of flexibility to build a custom designed system of 100 V and low-impedance zones. A solution which will allow any installer to face up to the most challenging of circumstances!

- Amplifier type : 8 channel, bridgeable
- Output power per channel from 20Hz to 20 kHz : 140 W
- RMS program power into 8 Ohms : 250 W
- RMS program power into 4 Ohms : 500 W
- RMS program power into 8 Ohms 2 channels bridged : minimum 4 Ohms
- Input impedance balanced input : 20 kOhms
- Input impedance unbalanced input : 10 kOhms
- Input sensitivity balanced & unbalanced : 0 dBv
- Routing : Linkable stereo inputs, stereo to mono mix
- Routing : Bridge mode adjacent channels only (e.g. 1&2, 3&4,,,)
- Protection circuits : Signal limiter, overload, short-circuit, DC, overheat, softstart
- Power supply : 230 VAC/50Hz
- Dimensions Height x Width x Depth : 132 x 483 x 484 mm
- Weight : Net: 25,3 kg (gross shipping weight 29,8 kg)

APART PT8120

The PT8120 is an 8 channel transformer unit. It is built using 8 high grade quality toroidal audio transformers, guaranteeing low distortion, high bandwidth, and full galvanic isolation between the audio sources and the 100 V speaker lines. This transformer is an ideal solution for circumstances where an installer has to design a multiple-zone infrastructure.

The PT8120 has a built-in speaker for monitoring each of the 8 channels. Zone selection can be done at the touch of a fingertip through the buttons on the front panel. By means of the attenuator switch, you can adjust the output power of the monitor panel and get a perfect view on the level settings in the different zones.

A combination with the APart PA8250 power amp provides a maximum of flexibility to build a custom-designed system of 100V and low impedance zones. A solution that will allow any installer to face up to the most challenging of circumstances!

- Number of channels : 8
- Power : 120 W in 100 V per channel
- Input impedance : 4 or 8 ohms selectable
- Output voltage : 50 - 70 - 100V selectable
- Frequency response : 28 Hz - 20 kHz (0/-3 dB)
- Total harmonic distortion : <0,2%
- Monitor speaker power : 2 W
- Sensitivity : -6, 0 , +6 dB selectable
- Protection : DC input protection, anti clip protection
- Power combinations with PA8250 8 channel amplifier :
- 120W/100V : 1 channel of PA8250 into 8 ohm transformer input, 100 V out,
- 240W/100V : 1 channel of PA8250 into 2 8 ohm transformers, 8 ohm inputs wired in parallel, 2 x 50V outputs in series.

APART PA2120mk11

Silent and ultra slim 1u power amplifier.

- Silent and reliable stereo power amplifier
- 2 x 120 watt RMS
- Will drive at 2, 4 or 8 ohms
- Impedance selector
- Monitor phone output
- Convection cooling, limiters included
- Overload protection
- Signal, peak and protect LED indicators per channel
- 1U 19" rack-mountable

output power	2 x 120 watt RMS
impedance	Will drive at 2, 4 or 8 ohms
no. inputs	RCA Cinch unbalanced, XLR / Jack balanced
output zones	-
rack mountable	included
power supply	230VAC
dimensions (h x w x d)	44mm x 483mm x 325mm
'U' height	1U
weight	6.8kg

APART PA4060

Silent and ultra-slim power amplifier. Ideal for multi-zone or multi-room applications.

- Silent and reliable stereo power amplifier
- Ideal for multi-room applications
- 4 x 60 watt RMS @ 4 ohms
- Inputs with link switches to route input signals
- Convection cooling, limiters included
- Overload protection
- Signal, peak and protect LED indicators per channel
- 1U 19" rack-mountable

output power	4 x 60 watt RMS
impedance	4 ohms
no. inputs	4 x RCA Cinch unbalanced
output zones	4 x left and right speaker
rack mountable	included
power supply	230VAC
dimensions (h x w x d)	44mm x 483mm x 325mm
'U' height	1U
weight	6.9kg

APART PUBDRIVE2000

High power system solution amplifier. Ideal for use with SUB/Satellite speaker systems. (see Mask series loudspeakers)

- Designed to run a series of loudspeakers with a separate sub output
- Very high power outputs to drive from 2 ohm impedances
- 3 channel outputs
- 1200 watt RMS into 2 ohm sub channel
- 2 x 500watt RMS into 2.7ohm L & R channels
- Separate adjustable crossovers
- Pre-out/amp in for external processors
- Built-in extended AP limiter
- Complete protection and limiter circuits for 24-hour operation
- Signal, peak and protect LED indicators per channel
- 3U 19" rack-mountable

output power	2 x 500watt RMS into 2.7ohm L&R channel / 1200 watt RMS into 2 ohm Sub channel
impedance	drive from 2 ohm impedances
no. inputs	combo XLR / Jack Balanced
output zones	left, right and sub
rack mountable	included
power supply	230VAC
dimensions (h x w x d)	134mm x 483mm x 482mm
'U' height	3U
weight	25kg

ELECTRO-VOICE CP1200

Precision series 2 x 600watt Class H power amplifier.

- Precision series sound quality
- Ideal for small full range cabinets and individual hi-frequency components
- 30% dynamic headroom
- Drives into 2 ohm
- 2 x 600 watts into 2 ohm 2 x 400 watts into 4 ohm
- Class-H design for less heat dissipation
- Very light and compact format
- High precision detent front controls
- Dynamic audio limiter
- Robust construction and reliable design
- Unique Protection package inc. Back-EMF protection
- 2U high rack 19" rack mountable

output power	2 x 600 watts into 2 ohm 2 x 400 watts into 4 ohm
impedance	drives into 2 ohm
no. inputs	1 XLR per channel
output zones	left, right and bridge
rack mountable	included
power supply	230VAC
dimensions (h x w x d)	88.1mm x 483mm x 386.8mm
'U' height	2U
weight	13.5kg

ELECTRO-VOICE CP1800

Precision series 2 x 900watt Class H power amplifier.

- Precision series sound quality
- Ideal for small full range cabinets and individual hi-frequency components
- 30% dynamic headroom
- Drives into 2 ohm
- 2 x 900 watts into 2 ohm 2 x 600 watts into 4 ohm
- Class-H design for less heat dissipation
- Very light and compact format
- High precision detent front controls
- Dynamic audio limiter
- Robust construction and reliable design
- Unique Protection package inc. Back-EMF protection
- 2U high rack 19" rack mountable

output power	2 x 900 watts into 2 ohm 2 x 600 watts into 4 ohm
impedance	Drives into 2 ohm
no. inputs	1 XLR per channel
output zones	Left, right and bridge
rack mountable	included
power supply	230VAC
dimensions (h x w x d)	88.1mm x 483mm x 386.8mm
'U' height	2U
weight	15kg

ELECTRO-VOICE CP2200

Precision series 2 x 1100watt Class H power amplifier.

- Precision series sound quality
- Ideal for full range components as well separate components within concert sound systems
- 30% dynamic headroom
- Drives into 2 ohm
- 2 x 1100 watts into 2 ohm 2 x 800 watts into 4 ohm
- Class-H design for less heat dissipation
- Very light and compact format
- High precision detent front controls
- Dynamic audio limiter
- Robust construction and reliable design
- Unique Protection package inc. Back-EMF protection
- 2U high rack 19" rack mountable

output power	2 x 1100 watts into 2 ohm 2 x 800 watts into 4 ohm
impedance	Drives into 2 ohm
no. inputs	1 XLR per channel
output zones	Left, right and bridge
rack mountable	included
power supply	230VAC
dimensions (h x w x d)	88.1mm x 483mm x 386.8mm
'U' height	2U
weight	16kg

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JEDIA JTP10

FM/AM digital tuner module.

- Simple to fit
- Comes with aerial and all relevant connections
- 18 station preset memory
- 12 for FM and 6 for AM band
- Auto tuning
- Gain control
- Can be used on all Mobile, JPA, JPA (A) and JPS series amps
- Can also be used with JME2 and 4A module nests

JEDIA JCR10

Auto reverse cassette deck and FM/AM digital tuner module.

- Simple to fit
- Comes with aerial and all relevant connection
- 18 station preset memory
- 12 for FM and 6 for AM band
- Auto tuning
- Auto reverse cassette mechanism
- Gain control
- Can be used on all Mobile, JPA, JPA (A) and JPS series amps
- Can also be used with JME2 and 4A module nests

JEDIA JCDR10

CD player and FM/AM digital tuner module.

- Simple to fit
- CD player with cue/random/repeat and intro scan play
- Comes with aerial and all relevant connection
- 30 station preset memory
- 18 for FM and 12 for AM band
- Auto tuning
- Auto reverse cassette mechanism
- Gain control
- Can be used on all JPA, JPA (A) and JPS series amps (not Mobile series)
- Can also be used with JME2 and 4A module nests

JEDIA JDM10A

Digital message/ signal module.

- 4bit ADPCM LSI/ 16kHz sampling frequency for high quality sound
- Backup battery for data storage after power failure (60 days)
- Almost 9 minutes of record time available across 6 messages
- Remote closing contact activation of messages
- Activation via remote call station (JRC10 see relevant products)
- Priority emergency message activation with loop repeat
- Gain control
- Can be used on all Mobile, JPA, JPA (A) and JPS series amps
- Can also be used with JME2 and 4A module nests

JEDIA JME2A

JME2A – 2 slot module nest for Jedia audio source modules.

- Balanced XLR outputs, individual or mixed for the 2 x modules
- 19" rack mountable
- Power switch
- AC and 24VDC

JEDIA JME4A

JME4A – 4 slot module nest for Jedia audio source modules.

- Balanced XLR outputs, individual or mixed for the 2 x modules
- 19" rack mountable
- Power switch
- AC and 24VDC

JEDIA RMK10

Rack mount kit.

- Allows for 19" racking of JPA1120 (see related product)
- 3U high

CLOUD LM1 - remote wall plate controllers

LM-1 Remote source selector and mic/line input module

- Inputs for balanced mic and stereo line
- XLR mic input RCA line input both with level control
- Mic input can override music
- Remote control of mixers source selection and level control

CLOUD DM1 - remote wall plate controllers

DM-1 2 mic input remote panel.

- 2 balanced XLR mic inputs
- Individual level control for each mic
- Common tamperproof HF & LF controls
- Can be daisy chained for multiple input requirements

CLOUD AE1 - remote wall plate controllers

AE-1 Separate microphone and Line level input module each with level control.

- Inputs for microphone and stereo music sources
- 6.3mm jack input for mic. 6.3mm jack and RCA inputs for music
- Individual control of mic and music level
- Mic signals can duck music source
- Facility to mute system music source

CLOUD RL1 - remote wall plate controllers

Single gang electrical faceplate style wall mount volume control for a variety of Cloud mixer products.

- Remote volume control of music source
- Simple to wire solution
- Uses single gang electrical backbox

CLOUD RLS6 - remote wall plate controllers

Single gang electrical faceplate style wall mount audio source selector and volume control for a variety of Cloud mixer products.

- 6 position audio source selector
- Remote volume control of music source
- Simple to wire solution
- Uses single gang electrical backbox

INTER-M PB-9207A - battery charger

19" rack mounting battery charger.

- Controlled automatic charge current
- DC Amp meter
- DC Volt Meter
- Overcurrent and overcharge protection
- 2U high
- 482 x 280 x 88mm (WxDxH)

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APART PXQ2215

The APart PXQ2215 is much more than a standard 2 x 15 band EQ. It combines the EQ section with a 2 way adjustable X-over at the back. Turning the frequency pot-meter completely to the left, results in a Full range output.

Via this adjustable frequency potentiometer, a perfect balance for your low and mid-high frequencies can be obtained; no matter what acoustic environment you are in.

- Type : 2 x 15, 2/3 octave, 6 freq. Below 300 Hz, ISO Spacing above 300 Hz
- X-over : 20-300 Hz adjustable, 24 dB/oct. Linkwitz-Riley
- Control Range EQ : +/- 6 dB or 12 dB selectable
- Inputs : Balanced XLR 20 kOhm, RCA Cinch 15 kOhm
- Outputs : Sub Out / High Full range out: XLR balanced + RCA Cinch
- Distortion : 0.02% (at 1 kHz, all slider at center)
- Frequency Response : 20 Hz to 50 kHz, -3dB (all slider at center)
- Signal to Noise Ratio : >93 dB
- Dimensions (H x W x D) : 44 x 483 x 280 mm
- Weight : 3.5 Kg

BOSCH LBB1968/00

The Plena feedback suppressor uses a powerful DSP with a patented algorithm to suppress acoustic feedback. It actively filters out unwanted room reverberations using an echo-cancellation and de-reverberation algorithm. By adding masked (inaudible) noise to the output signal or by shifting the frequency of the output signal by five hertz, the Plena feedback suppressor is able to detect the reverb component of the signal and remove it before feedback occurs.

- Patented feedback suppression algorithm
- Suppresses feedback before it occurs
- Automatically adapts to the acoustical situation
- Up to 12 dB additional gain before feedback occurs

BEHRINGER FBQ2496

The FBQ2496 is the fastest (>0.2 sec.) and the only 96 kHz Feedback Suppressor on the market. Using an ultra-fast feedback detection algorithm, it automatically and "intelligently" locates up to 20 feedback frequencies per channel and sets extremely narrow notch filters to "destroy" them, leaving the remainder of the signal virtually untouched.

- Automatically and "intelligently" locates and destroys up to 20 frequencies per channel
- Ultra-fast feedback detection (>0.2 sec) due to proprietary FFT signal analysis
- Ultra-narrow notch-filters (up to 1/60th octave) for very effective feedback suppression, while keeping highest sonic quality
- "Set-and-forget" default setting plus Panic button enable immediate and super-easy Feedback Destroyer performance
- Auto mode continuously monitors the mix, resetting programmed filters automatically
- Single-shot mode automatically detects and destroys feedback and locks the filter until you reset it manually
- Manual mode allows individual setting of up to 40 fully parametric filters with frequency, bandwidth and gain adjustment
- Ultra-high resolution 24-bit/96 kHz A/D and D/A converter powered by a 32-bit DSP for ultimate audio performance
- Balanced inputs and servo-balanced outputs with gold-plated XLR and ¼' TRS connectors
- Internal switch-mode power supply for maximum flexibility (100 - 240 V~), noise-free audio, superior transient response plus lowest possible power consumption for energy savings

JEDIA JAD125A - audio distribution unit

Ideal solution for distributing audio signals to multiple points. Up to 10 outputs can be be fed from a single input or 2 banks of 5 outputs from 2 inputs.

- 10 mono, 5 stereo outputs
- High quality electronic balanced inputs and outputs
- All XLR connectors
- Individual output level control
- Low noise PSU
- 230VAC and 24V DC operation
- 1U high
- 483 x 200 x 44mm (WxDxH)
- Weight 2.9KG

WHARFEDALE PM500 SYSTEM

Designed for optimum performance in a variety of applications from live music performance and playback, to sound reinforcement or public address, the PM 500 System is a great sounding, simple to transport and setup, road tough sound system.

The PM500 System comprises 1 x PM 500 powered mixer, two PT10 two way 10" loudspeakers and one DM1.0 dynamic microphone (plus one mic cable and two speaker cables).

The PM500 comes with a pair of PT10 loudspeakers. The PT series are high output, high efficiency loudspeakers featuring Wharfedale Pro proprietary drive units and a purpose built high quality Electro-Dynamic high frequency driver. With built in high frequency driver overload protection, the PT series are perfect for life on the road.

The PM Mixer is protected by a tough carpet covered surround and benefits from:

- Five mono input channels featuring separate Mic & line input
- Channel five features extra Tape In button
- Digital Delay
- Tape In
- Record Out
- Power On/Off on front of unit for easy use
- Parallel speaker outputs on rear of unit
- Main line output on rear of unit
- Built in 120 watt power amplifier
- Two band channel EQ
- XLR plus 1/4" input socket
- Thermal protection

driver	10"
power Handling	120Watts
impedance	4Ohms
frequency Response	20Hz – 25kHz
tappings	-
sound level pressure (1w / 1m)	-
IP rating	-
dimensions (h x w x d)	155mm x 475mm x 269mm
weight	9320g
colour	black

WHARFEDALE PM600 SYSTEM

Designed for optimum performance in a variety of applications from live music performance and playback, to sound reinforcement or public address, the PM 600 System is a great sounding, simple to transport and setup, road tough sound system.

An integral part of the PM Systems are the PT loudspeakers. The PM600 comes with a pair of PT12 loudspeakers. The PT series are high output, high efficiency loudspeakers featuring Wharfedale Pro proprietary drive units and a purpose built high quality Electro-Dynamic high frequency driver. With built in high frequency driver overload protection, the PT series are perfect for life on the road.

The PM600 System comprises 1 x PM600 powered mixer, two PT12 two way 12" loudspeakers and one DM1.0 dynamic microphone (plus one mic cable and two speaker cables).

The PM Mixer is protected by a tough carpet covered surround and benefits from:

- Six mono input channels featuring separate Mic & line input
- Channel six features extra Tape In button
- Digital Delay
- Tape In
- Record Out
- EFX Return / EFX Send
- Power On/Off on front of unit for easy use
- Parallel speaker outputs on rear of unit
- Main line output on rear of unit
- Built in 230 watt amplifier
- Two band channel EQ
- XLR plus 1/4" input socket
- Three band master EQ
- Thermal protection

driver	12"
power Handling	230Watts
impedance	4Ohms
frequency Response	20Hz – 25kHz
tappings	-
sound level pressure (1w / 1m)	-
IP rating	-
dimensions (h x w x d)	188mm x 475mm x 241mm
weight	11400g
colour	black

ALTO OEX400

Self-contained portable powered mixer and speaker system.

- 300W RMS into 4ohms
- 10" (254mm.) custom coaxial speakers
- 8 input channel mixer, with wide choice of balanced/unbalanced input options
- Frequency Response: 65Hz-20kHz @ 10dB
- 16 preset Internal Digital Effects section, including effects combination
- Lightweight, interlocking components adopting luggage style transportation system on wheels
- Three helpful handles (one for each speaker and one for the main unit) allow easier carriage
- Ideal compact portable audio system to ENJOY YOUR MUSIC!
- Overload / Short Circuit / Soft Clip Limiter / Thermal Protection Fan Cooling

CLOUD PUMPSTATION - Modular multi-channel headphone distribution system

Listening to a personal choice of music or video sound track can reduce the tedium of exercising or waiting. The Cloud Headphone Distribution System has been specially developed to meet the needs of users who would benefit from having an entertainment facility at their fingertips. Whether exercising, adding a tan or patiently waiting for something to happen, the Pump Station is designed to provide the entertainment. Offering 8 stereo sound sources, any of which can be selected to operate through a pair of stereo headphones via the RH-8 or WP-8(A) control panel with a total capacity of 256 control panels on one system.

CLOUD PUMPSTATION 16

- 8 stereo channel inputs
- Global input with priority for microphone
- RJ45 connection for up to 16 RH-8 or WP-8(A) control panels
- Connection to Substation16 for additions of up to 16 RH-8 or WP-8(A) control panels per substation (max 256 control panels)

CLOUD SUBSTATION 16

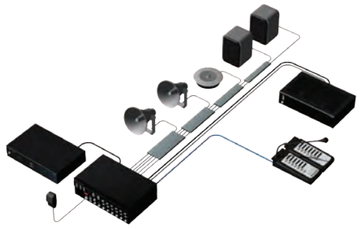
- Expansion unit for connection of 16 x RH-8, RH-8c or WP-8(A) control panels
- Up to fifteen SS-16s can be added to provide a total system capacity of 256 users

CLOUD RH-8

- Remote control for Pumpstation
- Fits to gym equipment
- 8 channel selector
- Volume control
- 3.5mm headphone socket
- RH-8 Ivory coloured, RH-8C Charcoal coloured

CLOUD WP-8

- Remote control for Pumpstation
- Wall-mount electrical faceplate
- 8 channel selector
- Volume control
- 3.5mm headphone socket
- Cloud Grey/blue finish



BOSCH PLENA VOICE ALARM - basic system

In a stand-alone voice alarm system with up to 6 zones, the Plena voice alarm controller with its built-in 240watt booster amplifier is and ideal plug and play solution. The front panel with integral supervised microphone functions as a fireman's panel, and an additional call station with a programmable keypad can be added to allow public address calls to be made using the same basic configuration.

If required, BGM can be implemented in selected zones. Up to 255 messages and chime tones are recorded as WAV files in the controller's supervised message manager.

BOSCH LBB1990/00 - Plena Voice Alarm System Controller

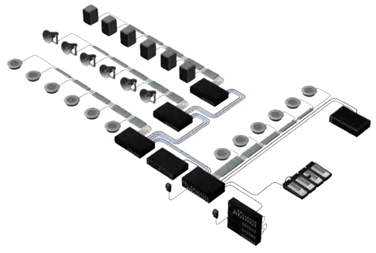
Self-contained portable powered mixer and speaker system.

- Basic 6 zone system
- Expandable to 60 zones (using routers see additional zone section)
- Up to 8 call stations can be connected
- Built-in 240 watt booster amp
- Digital message system
- Up to 255 pre-recorded messages and chimes/tones can be stored
- Emergency mic on front panel
- 16 priority levels
- Individual BGM control for each zone
- Standard and emergency control in and outputs
- Additional Booster amps are supervised
- Can be set up using PC or via DIP switches
- Fully complies with IEC60849 and all national equivalents such as BS5839

BOSCH LBB1956/00 - Plena Voice Alarm Call Station

Self-contained portable powered mixer and speaker system.

- 6 programmable keys and all call
- Emergency, call, power and fault indicators
- Uni-directional condenser mic on flexible stem
- Allows connection of expansion keypad LBB1957



SYSTEM CONFIGURATION FOR ROUTING TO ADDITIONAL ZONES

A medium to large sized two-channel voice alarm system with 24 zones is easily realised with a Plena Voice Alarm Controller and three routers (each providing routing for 6 zones). A BGM source can provided music if required and additional Plena Booster amplifiers are incorporated to provide power for the extra zones, emergency call channel and as a spare amplifier. The Plena remote control control panels allow the main equipment to be situated in a fire-retardant room or cabinet and can also act as fireman's panels close to an emergency exit or the main entrance. The system can be easily extended using additional routers.

BOSCH LBB1996/00 - Plena Voice Alarm remote controller

- Duplicates functionality of System controller front panel (allowing system to be remotely situated in rack)
- Can be used as a fireman's panel.

BOSCH LBB1992/00 - Plena Voice Alarm Router

- Each router adds 6 zones
- Up to 9 routers can be used
- Same functionality as system controller
- Uses System controllers built-in amp or additional Plena booster amps

BOSCH LBB1957/00 - Plena Voice Alarm Keypad Extension

- 6 programmable keys and all call
- Emergency, call, power and fault indicators
- Uni-directional condenser mic on flexible stem
- Allows further connection of expansion keypad LBB1957

BOSCH PRAESIDEO - Digital Emergency Sound System

The most advanced off the shelf emergency sound system available today.

Praesideo is a fully digital public address system that meets all the requirements of an emergency system. The system brings highly innovative and advanced digital technology to the public address market.

The processing and communication of both audio signals and control data entirely in the digital domain makes the system superior to others currently available. Praesideo is designed for configuration from a PC, which makes installation and setting of operating perameters very simple and user-friendly.

Praesideo systems have been installed in hotels, office complex, airports around the world as well as cruise liners and shopping malls.

Due to the nature of the Praesideo product it is necessary to configure as system on a project by project basis. We are happy to specify a complete system with the assistance of a Bosch technician.

Please call for a quotation!

BOSCH CCS ULTRO SYSTEM

The CCS 800 Ultro Discussion System from Bosch brings order and convenience to small and medium-sized gatherings and conferences. This versatile and economical system is both simple to install and extremely straightforward to use. It has all the facilities required for achieving full control of meetings and discussions, without the need for an operator.

Excellent speech intelligibility under all conditions is assured due to a unique, built-in digital acoustic feedback suppression facility. This allows the volume to be increased as required without any danger of feedback.

System example - Council Meeting

Each active participant has a table top unit for listening and speaking. An external microphone can be connected to the central control unit to allow the audience attending the meeting to have their say.

Typical council set up

- 1 x Central control unit
- 1 x Chairmans unit
- Up to 50 Delegate units
- Inter-connect cables to suit installation (see list)
- Microphone for Audience participation (see microphone section)
- External amplifier and speakers for audience (see relevant product section)

BOSCH CCSCU CENTRAL CONTROL UNIT

The heart of the CCS Ultro System, the control unit supplies power for all delegate and chairman's units in the system. The unit also controls the microphones of the chairman's and delegate units, as well as providing connections for audio inputs and outputs.

- Mp3 record facility via SD card input
- Supplies power for up to 50 contribution units
- Provides control for up to 150 contribution units
- Will slave up to 2 further control units to allow up to 150 contribution units for one system
- Four selectable modes and a test mode
- Open mode without auto-switch off -allows selection of 1 to 4 mics, which can be simultaneously active
- Open mode with auto-switch off - allows selection of 1 to 4 mics, which can be simultaneously active. If delegate does not speak for 30 secs mics are auto switched off
- Override mode - delegates can override each other by activating microphone. *NB Cannot override Chairman
- Chairman only mode - Only chairman can speak
- Test mode - Checks system connections automatically
- Built-in loudspeaker and headphone socket
- System requires LBB3331/00 Chairmans unit, LBB3330/00 Delegate unit
- Optional 19" rack-mount kit LBB331/00

BOSCH LBB3331/00 - chairmans unit

Chairmans unit with flexible gooseneck mic and 'active' light ring

- Overrides delegate units when required.
- Gooseneck 313mm long
- Built-in loudspeaker
- Two headphone sockets
- Built-in volume controls for headphones
- Also available with 488mm long microphone LBB3331/50

BOSCH LBB3330/00 - delegate unit

Delegate unit with flexible gooseneck mic and 'active' light ring.

- Gooseneck 313mm long
- Built-in loudspeaker
- Two headphone sockets
- Built-in volume controls for headphones
- Also available with 488mm long microphone LBB3330/50

BOSCH LBB3316/05 5metre cable extension lead

BOSCH LBB3316/10 10metre cable extension lead

BOSCH LBB3316/00 100metre cable extension lead

APART PA-CONF - conference / discussion system

Developed to be a simple to operate, affordable discussion system that can be used for meetings, presentations, discussions and conferences etc.

The Chairman and Delegate mics have two console styles available. Either table-mount or flush-mount.

The system works by simply allowing a delegate to enter a discussion mix with all live microphones. Audio is fed from the central control unit to a separate public address system via a line output with level control. A built-in DSP automatic feedback circuit controls any 'howl-round' issues. There is also inputs for an external audience mic and for separate audio sources such as video presentation or remote telephone conferencing.

APART PA-CONF - control unit

- Microphone pre-amplifier/mixer control unit
- Infra-red remote control
- Input for conference mic daisy chain (up to 60 units)
- Mic/line and Line input
- Built-in DSP Automatic feedback controller
- 483mm (W) x 280mm (D) x 44mm (H)

PA-CONFC - chairmans unit (table-top)

- Solid table-top design
- LED collar 'active' light on mic
- 470mm uni-directional cardioid gooseneck mic.
- Built-in limiter
- 12 metre cable c/w jack plug included
- Speech control with chairman's' priority override button
- 120mm (W) x 154mm (D) x 40 (H)

conference - discussion systems

APART PA-CONFCI - chairmans unit (flush-mount)

- Tidy flush-mount base design
- LED collar 'active' light on mic
- Separate 470mm uni-directional cardioid gooseneck mic
- Built-in limiter
- 12 metre cable c/w jack plug included
- Speech control with chairman's' priority override button
- 142mm (W) x 124mm (Depth from surface) x 62 (length)

APART PA-CONFD - delegate unit (table-top)

- Solid table-top design
- LED collar 'active' light on mic
- 470mm uni-directional cardioid gooseneck mic.
- Built-in limiter
- 12 metre cable c/w jack plug included
- Speech control button
- 120mm (W) x 154mm (D) x 40 (H)

APART PA-CONFDI - delegate unit (flush-mount)

- Tidy flush-mount base design
- LED collar 'active' light on mic
- Separate 470mm uni-directional cardioid gooseneck mic
- Built-in limiter
- 12 metre cable c/w jack plug included
- Speech control button
- 142mm (W) x 124mm (Depth from surface) x 62 (length)

APART PA-CONF-SET - easy carry conference mic kit

The APart PA-CONF-SET is a case that contains a chariman conference microphone terminal (Ref; PA-CONFC) and 7 delegate conference microphone terminals (Ref; PA-CONFD) together with all cables to wire them to the APart PA-CONF microphone system.

All cables, bases and microphones are packed in a solid flight case. This makes the PA-CONF-SET very suitable for presentations, mobile or occasional use in hotels, meeting rooms, rental services and many others.

Included:
- 1 x PA-CONFC
- 7 x PA-CONFD
- 1 x Cable 12m
- 7 x Cable 2 m

Please note that the PA-CONF-SET can only be used with the APart PA-CONF microphone system

conference - digital congress systems

BOSCH DCN - digital congress network (next generation)

The world's first fully digital congress system brings the benefits of innovative digital technology to discussion, conference and congress systems. It is the first entirely digital system of its kind, and offers versatility, high audio quality and data transmission while providing complete control over conference proceedings. DCN next generation has low susceptibility to interference from mobile phones. Operation and installation is highly simplified. With modern, user-friendly control software and flexible management facilities for all types of conferences, it is suitable for events from small, informal gatherings up to international, multi-lingual conferences.

The system meets every requirement of modern conference management. Facilities include basic microphone management, delegate identification and registration, electronic voting, information distribution and display and extensive simultaneous interpretation. With the appropriate software modules, a single operator can control and monitor even the largest of conferences.

BOSCH WIRELESS DCN - wireless discussion system

Fully encrypted secure digital wireless congress system.

Designed to be the most flexible discussion system available, the Bosch DCN Wireless Discussion System offers the perfect solution for challenging locations such as multi-user venues and historical buildings. For multi-use venues, the wireless system allows owners to service customers better, easily and more effectively. With minimal time required for set-up or break-down, multiple events can take place in sequence, meaning better and more effective use of space.

For historical locations, the benefits can be even more pronounced. A discussion can be installed, rearranged and operated with virtually no impact on the integrity of the historical location. One no longer has to worry about damaging antique materials or ruining the aesthetics of a grand hall. No cables have to be laid or holes drilled. The entire system has been designed to be beautiful and unobtrusive so that all participants can focus on the event at hand.

- Set up quickly with no impact on location
- Easy to organise anywhere
- Award-winning design
- Stable and secure digital communication
- Immune to mobile interference
- Interpretation facilities (optional)
- Optional voting system

For both the Congress and Wireless systems please call for a comprehensive quotation and information pack

portable audio - megaphones

COMMERCIAL AUDIO CAS003

10 watt compact megaphone

- A compact and lightweight megaphone with 10 watt amplifier
- Up to 700m projection
- Comfortable pistol grip
- Carry strap
- Rotary volume control

max power	10watt
battery	6 x AA
weight	630g
dimensions	235 x 150mm Ø

COMMERCIAL AUDIO MEG25

Powerful 25 watt megaphone with detachable fist mic

- Detachable Anti-Feedback fist microphone
- Switchable siren function
- Up to 1km range
- Robust ABS construction
- Pistol grip or shoulder strap operation

max Power	25watt
battery	8 x D
weight	2kg
dimensions	340 x 230mm Ø

portable audio - presentation

The following systems are ideal for portable presentations such as exhibition stands, village halls, outdoor events etc.

SOUNDPLUS TRAMPSTD

Compact 25 watt presentation amplifier.

- 16 channel UHF radio mic system
- 25 watt amplifier built-in
- High performance speaker system
- Separate Auxillary input for additional sound source
- Built-in rechargeable battery with unique monitoring to stop over discharge
- Light weight easy to carry system with soft touch carry handle
- Wired handheld mic included

Comes with radio mic included (Options below)

- wireless Handheld mic (Order TRampStandardHandheld)
- Wireless Lapel mic and beltpack (Order TRampStandard Lapel)
- Wireless Headset mic and beltpack (Order TRampStandard Headset)

SOUNDPLUS TRAMPCD

Powerful 50 watt presentation system with excellent sound quality for music and speech applications.

- 16 channel UHF radio mic system.
- Fully programmable Anti-shock CD system with remote control
- Plays MP3 discs
- High power 50 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source
- Built-in rechargeable battery with unique montoring to stop over discharge
- Light weight easy to carry system with soft touch carry handle
- Wired handheld mic included
- Output for second speaker (see related products)
- Remote control

Comes with radio mic included (Options below)

- Wireless Handheld mic (Order TRampCDHandheld)
- Wireless Lapel mic and beltpack (Order TRampCD Lapel)
- Wireless Headset mic and beltpack (Order TRampCD Headset)

SOUNDPLUS TRAMPDVD

Powerful 50 watt presentation system with built-in DVD player for Video presentation and excellent sound quality for music and speech applications.

- 16 channel UHF radio mic system
- DVD player suitable for DVD/SVCD/VCD/CD-RW/ MP3CD with remote control
- High power 50 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source
- Built-in rechargeable battery with unique montoring to stop over discharge
- Light weight easy to carry system with soft touch carry handle
- Wired handheld mic included
- Output for second speaker (see related products)
- Remote control

Comes with radio mic included (Options below)

- Wireless Handheld mic (Order TRampDVDHandheld)
- Wireless Lapel mic and beltpack (Order TRampDVD Lapel)
- Wireless Headset mic and beltpack (Order TRampDVDHeadset)

SOUNDPLUS CHAMPCD

Superb high power 100 watt presentation system with excellent sound quality for music and speech applications where there are large audiences.

- 16 channel Diversity UHF radio mic system
- Fully programmable Anti-shock CD system with remote control
- Plays MP3 discs
- High power 100 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source
- Built-in rechargeable battery with unique montoring to stop over discharge
- Easy to carry system with soft touch carry handle
- Wired handheld mic included
- Output for second speaker (see related products)
- Remote control

Comes with radio mic included (Options below)

- Wireless Handheld mic (Order CHampCDHandheld)
- Wireless Lapel mic and beltpack (Order CHampCD Lapel)
- Wireless Headset mic and beltpack (Order CHampCD Headset)

SOUNDPLUS CHAMPDVD

Superb high power 100watt presentation system with built-in DVD player for Video presentation excellent sound quality for music and speech applications where there are large audiences.

- 16 channel Diversity UHF radio mic system
- DVD player suitable for DVD/SVCD/VCD/CD-RW/MP3CD with remote control
- High power 100 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source
- Built-in rechargeable battery with unique montoring to stop over discharge
- Easy to carry system with soft touch carry handle
- Wired handheld mic included
- Output for second speaker (see related products)
- Remote control

Comes with radio mic included (Options below)

- Wireless Handheld mic (Order CHampDVDHandheld)
- Wireless Lapel mic and beltpack (Order CHampDVD Lapel)
- Wireless Headset mic and beltpack (Order CHampDVD Headset)

portable audio - aerobic & dance

SOUNDPLUS TRAMP PC30

Worlds first true 20% digital pitch control on DVD / CD, USB and SD card input. Ideal for aerobic and dance classes.

- 16 channel UHF radio mic system
- Fully programmable DVD / CD and MP3 player memory stick with remote control
- Plays MP3 discs
- High power 50 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source
- Built-in rechargeable battery with unique monitoring to stop over discharge
- Light weight easy to carry system with soft touch carry handle
- Wired handheld mic included
- Output for second speaker (see related products)
- Remote control

Comes with radio mic included (Options below)

- Wireless Lapel mic and beltpack (Order TRampPC30 lapel)
- Wireless Headset mic and beltpack (Order TRampPC30 Headset)

SOUNDPLUS CHAMP PC30

Worlds first true 20% digital pitch control on DVD / CD, USB and SD card input. Ideal for aerobic and dance classes. Superb high power 100 watt system for larger classes.

- 16 channel Diversity UHF radio mic system
- Fully programmable Anti-shock CD system and MP3 memory stick with remote control
- Plays MP3 discs
- High power 100 watt amplifier built-in
- Two way high performance speaker system
- Separate Auxillary input for additional sound source
- Built-in rechargeable battery with unique monitoring to stop over discharge
- Easy to carry system with soft touch carry handle
- Wired handheld mic included
- Output for second speaker (see related products)
- Remote control

Comes with radio mic included (Options below)

- Wireless Lapel mic and beltpack (Order CHampPC30 lapel)
- Wireless Headset mic and beltpack (Order CHampPC30 Headset)

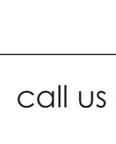
portable audio - accessories (for all soundplus portable systems)

TRAMP EXT

Extension speaker for **tr**amp systems.

- Connects to EXT output from Tramp system
- Same powerful 2 way speaker system as main unit
- Offers improved sound coverage
- Can be tripod mounted

CHAMP EXT



Extension speaker for **ch**amp systems.

- Connects to EXT output from CHamp system
- Same powerful 2 way speaker system as main unit
- Offers improved sound coverage
- Can be tripod mounted

H/HELD

separate 16channel handheld mic for **tr**amp and **ch**amp systems

BPACK/L

Separate 16channel Beltpack and lapel for Tramp and Champ systems

HBM

Headset boom mic to work with Soundplus Beltpack transmitters

- Super Cardioid pattern
- Rugged construction
- Ideal for aerobic/dance activity

TRAMPCOVER

Padded cover for **tr**amp systems (except **tr**amp-standard)

- Offers protection to all controls.
- Protects against damage to speakers
- Allows for operation whislt cover is on

CHAMPCOVER

Padded cover for **ch**amp systems

- Offers protection to all controls
- Protects against damage to speakers
- Allows for operation whislt cover is on

DUAL CHANNEL

system upgrade to 2 radio mic channels

- Available on Tramp and Champ systems (except Tramp Standard)
- Gives 2 separate radio mic receivers in one unit
- Extra radio mic transmitters available separately
- Order upgrade with Tramp or Champ system

portable audio - lecterns

SOUNDPLUS COMBI 88 DVD

Beautifully constructed wood vaneer lectern. Ideal for corporate presentations, schools, colleges and hotel conferences.

- All-in one construction of lectern, amplifier, wired gooseneck, wireless handheld mic and removable speaker system
- High power 88 watt amplifier
- Elegant wood vaneer construction
- Detachable speaker for flexible sound directionality
- Built-in castors for easy moveability
- UHF radio mic system
- Built-in light to aid reading
- Finger-tip audio controls on top of lectern
- DVD player and with VGA output to monitor/ visual display
- Lockable draw for storage of information/ radio mics etc.

PASO SL1120B

Compact high quality lectern

- 35 watt amplifier
- Built-in rechargeable battery
- Flexible gooseneck with high quality microphone
- Tone and volume control
- Input for music source (CD, MP3 etc) or radio mic
- Microphone activation will dip any music signal

call us now on: +44 (0)1743 851313

assistive hearing - induction loop

To comply with the Disability Discrimination Act, all service providers in contact with the general public must provide assistive hearing equipment, at the point of contact.

In this section you will find a wide range of audio frequency induction loop equipment suitable for permanent installation in public buildings and vehicles, as well as portable units for temporary applications. This enables hard of hearing people to hear and communicate more clearly, simply by switching their hearing aids to the 'T' position.

SIGNET ML1K

Simple to install small counter loop kit.

- Requires no specialist audio install experience
- Complies with DDA requirements BS8300
- Perfect for counter/desk applications
- Can also be used as small room loop up to 20sqm
- Fits into double gang electrical back box
- Complete kit provided. Nothing else required
- Comprises, Loop amp, microphone, loop cable and loop ID sticker
- 5 Year warranty
- Excellent audio performance
- Made in UK

SIGNET DL50K

Domestic/Retirement Home TV Lounge loop kit.

- Requires no specialist audio experience to install
- Ideal for bedroom, living rooms, TV lounges etc
- Easy to use controls
- Excellent audio performance
- Fully compliant for DDA
- Doorbell/ security input
- Covers up to 100sqm
- 5 year warranty
- 2 inputs
- Headphone socket for simple set up test
- Kit comes complete with amp, power supply, 33m loop cable,
- Scart to phono cable, microphone easy to follow instruction
- Loop ID sticker
- Made in UK

SIGNET PDA102L

Small room loop kit.

- Up to 50sqm coverage
- Can be wall or table mounted
- Simple installation system
- Accepts Signet Outreach plates (up to 8 input plates on 1 cable) See related products
- Comes with AMT microphone and 30m cable included.
- Complies with DDA legislation BS8300 and also EN60118-4
- Ideal for interview rooms, classrooms, shops etc
- Phantom power for use with other microphones
- Adjustable limit and drive control.
- Loop ID sticker
- Extremely compact design 56mm x 136mm x 175mm
- 5 year warranty
- Excellent audio performance
- Made in UK

SIGNET PDA102C

Counter loop kit.

- As PDA102L but with TXBI counter loop instead of room loop cable

SIGNET PDA102S

TV Lounge kit

- As PDA102L but with scart lead and APL connection plate as well as loop cable

SIGNET PDA102R

Boundary mic loop kit

- As PDA102L but with APM boundary mic instead of AMT mic

SIGNET PDA200E

Economical wall-mounted medium sized room loop.

- Up to 120sqm coverage
- Wall mountable – can be hidden in store room etc.
- Accepts Outreach plate system (up to 8 input plates on 1 line)
- See related products
- 2 further inputs mic and Line
- Fully compliant with DDA BS8300
- 100v line input from PA system
- Tamper resistant controls
- Fire/security alarm input
- Fully automatic compressor limiter
- Loop ID sticker
- Ideal for schools, colleges and rooms left unsupervised.
- Excellent audio performance
- Made in UK
- 5 year warranty

SIGNET PDA500/2

Professional range loop amplifier with 500sq metre coverage

- Ideal for theatres, cinemas, churches, conference halls where high quality audio is required
- 500sqm coverage
- 2 x XLR inputs (1 x balanced mic and 1 x switchable balanced mic/line)
- 1 x input for outreach plates (allows up to 10 x outreach plates to be daisychained – see related products)
- Adjustable level controls for all inputs
- Metal compensation control helps offset frequency response problems with excessive metal in a building
- LED True output current meter
- LED compressor indicator
- 3.5mm headphone socket for monitoring of output signal
- Advanced signal processing with automatic gain control
- Optional rack-mount kit (PDA/RM see related product)

SIGNET PDA200/2

Professional range loop amplifier with 200sq metre coverage.

- Ideal for theatres, cinemas, churches, conference halls where high quality audio is required
- 200sqm coverage
- 2 x XLR inputs (1 x balanced mic and 1 x switchable balanced mic/line)
- 1 x input for outreach plates (allows up to 10 x outreach plates to be daisychained – see related products)
- Adjustable level controls for all inputs
- Metal compensation control helps offset frequency response problems with excessive metal in a building
- LED True output current meter
- LED compressor indicator
- 3.5mm headphone socket for monitoring of output signal
- Advanced signal processing with automatic gain control
- Optional rack-mount kit (PDA/RM see related product)

SIGNET PDA1000/2

Professional range loop amplifier with 900sq metre coverage.

- Ideal for theatres, cinemas, churches, conference halls where high quality audio is required
- 900sqm coverage
- 2 x XLR inputs (1 x balanced mic and 1 x switchable balanced mic/line)
- 1 x input for outreach plates (allows up to 10 x outreach plates to be daisychained – see related products)
- Adjustable level controls for all inputs
- Metal compensation control helps offset frequency response problems with excessive metal in a building
- LED True output current meter
- LED compressor indicator
- 3.5mm headphone socket for monitoring of output signal
- Advanced signal processing with automatic gain control
- Optional rack-mount kit (PDA/RM see related product)

www.tsshropshire.co.uk

assistive hearing - induction loop

SIGNET PL1K

Portable easy operation loop kit.

- Ready to use in seconds
- Fully compliant for Disability Act
- Ideal for counter, table or desk top
- Meeting rooms, banks, offices etc
- Excellent audio performance
- Simple 1 button operation
- Full rechargeable system
- 5 year warranty
- Integral high performance mic
- Battery efficient cut off when not in use
- Additional mic socket included
- Made in UK

SIGNET VL1

Vehicle loop. Ideal for taxi's / minibuses, buses & coaches

- Easy Install
- VL1-B1 12v dc power variant for taxis minibuses
- VL1-B2 24v dc power variant for coaches and buses
- Allows full compliance with DDA
- B1 kit comprises, amp, mic, loop cable, 12v fused cigarette lighter adaptor
- B2 kit comprises, amp, mic, loop cable, 24v kit has a 12v to 24v converter
- Loop ID sticker
- 5 year warranty
- Full install instruction included
- Fits under dashboard or in glovebox

assistive hearing - loop accessories

SIGNET PDA/RM

Rack mount for all MK11 (/2) loop amplifiers.

SIGNET PDA/WM

Wall mounting kit for all PDA MK11 (/2) loop amplifiers.

SIGNET OUTREACH PLATES

Designed to increase the audio input capability of Signet induction loop systems. Each plate features a built-in mixer, pre-amp, input level control and balancing output. Up to 10 plates can be daisy-chained on 1 balanced line level input.

Cable runs in excess of 100m can be used with standard twin pair cable.

APM - wall/ceiling mount boundary microphone

- Self-contained omni-directional electret microphone
- On-board mic to line converter
- Ideal for ceiling or wall-mounting
- Coverage of up to 25m² (ceiling height
- Standard single gang electrical face plate

APXM - for microphones with xlr plug

- Accepts balanced or unbalanced microphones
- 3 pin XLR input
- On-board mic to line converter
- High gain pre-amplifier
- 8v phantom supply
- Standard single gang electrical face plate

APQM - for microphones with ¼" jack plug

- Accepts balanced or unbalanced microphones
- ¼"/ 6.3mm Jack input
- On-board mic to line converter
- High gain pre-amplifier
- 8v phantom supply
- Single gang electrical face plate

APJ - for microphones with 3.5mm jack plug

- Accepts balanced or unbalanced microphones
- 3.5mm Jack input
- On-board mic to line converter
- High gain pre-amplifier
- 8v phantom supply
- Single gang electrical face plate

APL - line level audio input plate

- Accepts 2 line level signals (stereo source, TV, CD etc)
- 2 phono (RCA) input sockets
- On-board mono converter
- Standard single gang electrical face plate

APXL - 3 pin xlr Line level audio input plate

- Accepts XLR feed from audio equipment (stage, church mix desk)
- On-board level control
- Standard single gang electrical face plate

API - loop active indicator plate

- 2 ultra-bright LEDs in transluscent diffuser
- Induction loop symbol
- Illuminates when outreach network is powered

APV - power supply for outreach plates

- For use where loop system does not have 12/24v output
- Can be used as retro fit for none Signet loop systems

assistive hearing - loop accessories

RXTi2 - loop listening device

- Enables the installer / engineer to check that an induction loop system is working effectively, without the use of a hearing aid!!!
- Lighweight headphones and 2 x AAA batteries required (not supplied)

TEAR10 - loop present stickers

- Pack of ten self adhesive 'induction loop present' stickers

AHHM/H - combined magnetic field strength meter and loop listener

The FoSmeter can be used to accurately measure the magnetic field strength of an induction loop system. It is calibrated at manufacture for accuracy and linearity using a calibrated magnetic field and includes 10 LEDs laid out in 3dB increments. These LEDs indicate the magnetic field strength relative to 100mA/m (i.e. 0dB) and their response is fast attack and slow decay in line with peak programme meter type instruments.

In addition, the 3.5mm jack socket on the side of the FoSmeter H allows conventional audio signals such as music or speech to be tested for distortion using Walkman-style headphones (not supplied). The headphones used must have an impedance level of at least 32 Ohms. Please note, the GAIN switch on the FoSmeter H is set to operate in low mode only to prevent interference from mains hum when listening to the loop signal.

CAS850 - 4 core cable for outreach plates

- Ideal for connecting Signet outreach plate systems
- 2 x twisted pairs
- Colour coded cores
- White flexible sheath
- 100 metre drum

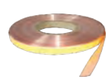
LOOP3/W - induction loop cable

- 100m drum of 1.5mm² , 32 strand loop cable

Loop4/W - induction loop cable

- 100m drum of 2.5mm² , 32 strand loop cable

Flat1005 - flat copper loop cable



- 100 metre reel 0.5mm² insulated copper foil tape
- Ideal for use under carpets

Flat2005 - flat copper loop cable

- 100 metre reel 1.0mm² insulated copper foil tape
- Ideal for use under carpets

Flat3005 - flat copper loop cable

- 100 metre reel 1.5mm² insulated copper foil tape.
- Ideal for use under carpets.

assistive hearing - infra-red

In this section you will find a range of infra-red equipment suitable for permanent installation in public buildings, enabling hard of hearing people to hear and communicate more clearly, simply by switching their hearing aid to the 'T' position. As the hard of hearing person needs to be in 'line of sight' of the transmitter, infra-red systems offer more privacy and security than induction loop systems, as there can be no 'overspill' into adjacent rooms / areas.

The systems below consist of modulators and radiators to bathe a room or area with an infra-red signal. Approximate coverage areas are given for each of the radiators. When specifying these products please make sure you have included power supplies, mounting brackets and any extension cables required. If you have any difficulty please contact us for a full quotation.

SENNHEISER SI30

Small/medium area modulator/radiator combined

The SI30 is a wideband modulator with an integral radiator. It can be switched between operation on channel 1 (2.3 MHz), channel 2 (2.8 MHz) and stereo operation. Due to its compact size and relatively low radiating power, the SI 30 modulator/radiator and the SZI 30 radiator (see related products) are an ideal choice for smaller or medium-sized rooms, for covering recesses or for applications which require transmission of audio information to well defined zones, e.g. in museums.

- Compact radiator and modulator/radiator for the carrier frequencies 2.3MHz and 2.8MHz
- Up to 80sq m coverage
- Line level input
- Easy installation and precise alignment
- Includes 1 x AF connection cable, 3.5 mm stereo jack plug to Texas connector, length 2m
- 1 x 3.5 mm/1 / 4 " stereo jack adaptor
- Requires mount clip IZK20 and bracket
- Requires NT20-1-UK power supply
- Optional KK20-1, 1 metre dc extension lead for use with NT20-1-UK and NT20-4-UK
- Optional KK20-7, 7 metre dc extension lead for use with NT20-1-UK and NT20-4-UK
- Optional IZM20 cluster-mount bracket, NT20-4-UK 4 way power supply, KKY20-015 4 way
- DC extension cable and KR20-015 4 way infra-red connection cables
- Can be modified to work directly at microphone level with phantom power (please call for quotation)

SENNHEISER SZI30

Small/medium area slave radiator.

The SZI30 is a wideband slave radiator designed to work in conjunction with the SI30 in applications where a single radiator is not sufficient to give full coverage pattern. Due to its compact size and relatively low radiating power the SZI 30 radiator is an ideal choice for smaller or medium-sized rooms, for covering recesses or for applications which require transmission of audio information to well defined zones, e.g. in museums.

- Compact slave radiator for the carrier frequencies 2.3 MHz and 2.8 MHz
- Up to 80sq m coverage
- Easy installation and precise alignment
- Requires mount clip IZK20 and bracket
- Requires NT20-1-UK power supply
- Optional KK20-1, 1 metre dc extension lead for use with NT20-1-UK and NT20-4-UK
- Optional KK20-7, 7 metre dc extension lead for use with NT20-1-UK and NT20-4-UK
- Requires KR20-7 connection cable to interconnect with SI30
- Optional IZM20 cluster-mount bracket, NT20-4-UK 4 way power supply, KKY20-015 4 way DC extension cable and KR20-015 4 way infra-red connection cables

SENNHEISER SZI1015-T

Large area coverage modulator and radiator combined.

The SZI 1015-T is a 2-Watt infra-red radiator with integral modulator. The wideband modulator uses the extremely reliable carrier frequency of 2.3 MHz. The radiator/modulator is automatically switched on and off by the AF signal. Via an RF output, the modulated signal can be fed to further radiators SZI1015. The SZI 1015-T has a coverage area of appx. 400 m2 (1313.33 sq ft); independent diode groups ensure extremely reliable transmission.

- 2-Watt infra-red radiator with integrated modulator for the carrier frequency 2.3 MHz
- Up to 400sq m coverage
- Line level input
- RF output (BNC socket and barrier strip) for connecting additional radiators using coaxial cable
- Energy saving automatic on/off function
- Requires WBSI30 mounting bracket
- Requires NT1015 power supply
- Can be modified to work directly at microphone level with phantom power (please call for quotation)

SENNHEISER SZI1015

Large area coverage slave radiator

The SZI 1015 is a 2-Watt slave radiator with a coverage area of up to 400 m². The radiator is switched on and off automatically by the modulator's RF carrier. The RF signal from the modulator can be daisy-chained via BNC sockets. A barrier strip with RF and DC inputs and outputs is connected in parallel.

- 2-Watt radiator with a maximum coverage area of 400 m²
- RF output (BNC socket and barrier strip) for connecting additional radiators using coaxial cable
- Energy saving automatic on/off function
- Requires NT1015 power supply. Note NT1015 power supply will power up to 1 x SI1015T and 2 x SZI1015 from one supply

SENNHEISER NT20-1

Power supply for SI30 and SZI30.

- Power supply unit
- Plug-in mains unit for an SI 30 modulator/radiator or SZI 30 radiator
- Output voltage: approx. 24 V DC
- Output current: approx. 200 mA

SENNHEISER NT20-4

4 way power supply unit.

- Plug-in mains unit for up to four SI 30 / SZI 30.
- For easy installation of SI 30 / SZI 30 clusters.
- Output voltage: approx. 24 V DC
- Output current: approx. 500 mA

SENNHEISER L151-2-UK

2 way charger and power supply for IR receivers.

- 2 way charger Sennheiser infra-red receivers
- For use with RI150 and RI150LL receivers
- Will also charge separate NiHM batteries BA151 (see related products)

SENNHEISER NT92-UK

Power supply for L151-10 10 way charger.

- Output voltage: approx. 13 V DC
- Output current: approx. 200 mA

SENNHEISER NT1015

Power supply unit.

- Mains unit for SI 1015 / SZI1015 modulator.
- (Will power up to 1 x SI1015T + 2 x SZI 1015.)
- Input voltage: 100 - 240 V (1.3 A)
- Output voltage: 29 V
- Output current: 1.7 A

SENNHEISER L151-10

10 way charger for IR receivers.

- For use with RI150 and RI150LL receivers
- Will also charge separate NiHM batteries BA151
- Requires power supply NT92-UK

SENNHEISER RI150

Stethoset IR receiver.

- Mono wideband stethoset receiver
- Extremely reliable transmission due to new carrier frequency (2.3 MHz)
- Excellent speech intelligibility and good music reproduction
- Volume control
- Extremely lightweight only 30 g
- Very easy to use
- Operates on environmentally friendly rechargeable NiMH accupack

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assistive hearing - infra-red

SENNHEISER RI150LL

Mono neckworn IR receiver (2.3 MHz) with loop for use with standard hearing aid systems

- Wideband neckloop receiver
- Extremely reliable transmission due to new carrier frequency (2.3 MHz)
- Volume control
- Extremely lightweight only 30 g
- Very easy to use
- Operates on environmentally friendly rechargeable
- BA151 NiMH accupack

SENNHEISER BA151

Additional rechargeable battery pack for RI150 & RI150LL

SENNHEISER KR20-7

7 metre extension cable for SI30 & SZI30 infra-red transmitters

SENNHEISER KK20-7

7 metre DC extension cable for SI30 & SZI30, texas socket to texas plug

SENNHEISER KR20-015

15cm extension cable for use with IZM20 cluster mount for SI30 & SZI30

COMMERCIAL AUDIO WBSI30

WBSI30 – Wall-mounting bracket for Sennheiser Infra-red radiators

- Sturdy mild steel universal mounting bracket in black
- Designed for direct mount of SZI1015/SZI1015T radiators
- Accepts IZK20 mounting clamp for SI30 and SZI30
- Comes with threaded bolt
- Supplied individually

SENNHEISER IZK20

Mounting clamp for SI30 and SZI30 transmitters

SENNHEISER KK20-1

1 metre DC extension cable for SI30 & SZI30, texas socket to texas plug

SENNHEISER KKY20-015

4 way octopus lead, DC extension cable. 4 x texas socket to 1 x texas plug, 15cm

SENNHEISER IZM20

Cluster mount for 4 x SI30 or SZI30

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LISTEN TECHNOLOGIES LT82-02

The Listen LT-82 is the heart of a stationary IR listening system. It takes the desired audio signal and transmits the signal via coaxial cable to one or more IR radiator-emitters (LA-140). The LT-82 can be operated in mono or stereo on one of four different carriers; up to four LT-82 units may be connected to provide up to four mono or stereo carriers to the radiator(s). The LT-82 generates DC power to power up to two LA-140 radiator-emitters. Two LT-82 units can be rack mounted in one rack space using the LA-326 rack mounting kit. The LT-82 is used for government compliance (such as ADA), assistive listening, language interpretation, live theatre, houses of worship, courtrooms, secure rooms and for auditory description.

- Secure wireless communication – ideal for applications where isolation of the signal is important
- Up to four channels mono, or four channels stereo – no need to sacrifice multiple channels to achieve stereo transmissions (one LT-800 is required for each channel).
- Outstanding performance ensures crystal clear sound for listeners
- **LA326** rack mounting kit for single or dual mounting. Includes security cover

LISTEN TECHNOLOGIES LA140

The LA-140 IR radiator/emitter packs high infrared power in a small and attractive design, with your choice of grey or white packaging. Designed for easy installation using standard components, the LA-140 is powered via CAT-5 cabling while the RF modulated carriers are delivered via standard RG-58 coaxial cable. Mounting brackets are included for wall, ceiling, desk, mic stand and tripod mounting. Power can be supplied by the LT-82 transmitter or from a separate power supply (LA-205). Built-in delay compensation prevents signal cancellation (multi-path) problems and eliminates the piled-up cabling that is required with other systems. The LA-140 is used for government compliance (such as ADA), assistive listening, language interpretation, live theatre, houses of worship, courtrooms, secure rooms and for auditory description.

- Outstanding coverage - 10,000 square feet (929 square meters)
- Two radiators can be powered from one LT-82 transmitter or optional power supply using standard CAT-5 cabling - eliminating the need for multiple cables
- White or grey color – allows for a variety of aesthetic settings

LISTEN TECHNOLOGIES LA205-02

The LA-205 Stationary IR System Power Supply is a replacement for the LT-82 power supply or can used to power an additional two (2) stationary IR radiators. The power supply connects to the transmitter or the radiators via CAT-5 cabling for simple installation. This unit can be specified for North America, Europe or United Kingdom.

- Standard CAT-5 connection – easy and inexpensive
- Available for multiple countries – can be used in many places around the world

LISTEN TECHNOLOGIES LR42

Users will love the comfortable, easy to use Listen LR-42 Stetho Receiver. This all-in-one receiver can receive up to four channels in mono or stereo. It uses standard AAA alkaline batteries for more than 30 hours of use, or a NiMH rechargeable battery pack that delivers 15 hours of use per charge. The unit features auto shut-off after 30 minutes of no audio carrier, further extending battery life. The LR-42 boasts high performance audio specs in a small package and is compatible with other manufacturers' products. The LR-42 is used for government compliance (such as ADA), assistive listening, language interpretation, live theatre, houses of worship, courtrooms, secure rooms and for auditory description.

- Stylish, all-in-one unit stetho design – no wires to tangle for easy distribution
- Receives up to 4 channels mono or stereo – provides outstanding performance with crystal clear sound
- Uses standard AAA batteries (available anywhere) or rechargeable Listen NiMH battery pack – gives you ultimate flexibility in managing battery life

LISTEN TECHNOLOGIES LR44

The Listen LR-44 Lanyard 4-Channel IR Receiver is comfortably worn around the neck and earphones are plugged into the receiver. The receiver can receive up to four channels in mono or stereo. It uses standard AAA alkaline batteries for more than 30 hours of use, or a NiMH rechargeable battery pack that delivers 15 hours per charge. The unit features auto shut-off after 30 minutes of no carrier, further extending battery life. The LR-44 boasts high performance audio specs in a small package and is compatible with other manufacturers' products. The LR-44 is used for government compliance (such as ADA), assistive listening, language interpretation, live theatre, houses of worship, courtrooms, secure rooms and for auditory description.

- Accepts most types of earphones – gives flexibility to the user preference of earphone
- Stylish, comfortable design and easy to use
- Adjustable lanyard to get just the right fit
- Receives up to 4 channels mono or stereo – provides outstanding performance with crystal clear sound

LISTEN TECHNOLOGIES LR166

This deceptively simple looking loop acts as a remote connection to hearing aids equipped with a "T" coil. Listeners hook the loop into their wireless receivers, slip the loop around their neck, and the "T" coil picks up the sound and amplifies the transmitted sound into the ear.

- Lightweight
- Use with "T" coil hearing aids

LISTEN TECHNOLOGIES LA350-02

The LA-350 is the simple solution for charging batteries and for storage/distribution of receivers. It holds up to eight LR-42 Stethoscope and/or LR-44 Lanyard Receivers in any combination. In addition, it can separately charge up to eight NiMH battery packs allowing you to have charged battery packs ready for receivers. The LA-350 is designed to be mobile or permanently mounted on a desk or on a wall. Batteries are automatically charged with green and red LEDs indicating the charge status.

- Compact design - Reduces the hassle of storing receivers and charging batteries
- Multiple unit storage - Stores and charges eight LR-42 and/or LR-44 receivers and/or eight LA-364 NiMH Rechargeable Battery Packs
- Convenient "tidy rack" - allows you to manage earphone cables and the lanyards on the LR-44 receiver

LISTEN TECHNOLOGIES LA364

The LA-364 IR NiMH Rechargeable Battery Pack is used with the LR-42 and LR-44 receivers, and offers the user the ability to use the pack to power Listen IR Receivers. The battery pack can be charged using the LA-350 8-unit IR Charging/Storage Station either in the receivers, or as back-up packs in the charging station. The LA-364 pack offers the user up to 15 hours of receiver operation before needing to be recharged.

- High capacity – offers the user up to 15 hours of receiver operation before needing to be recharged
- Versatile – you can charge back-ups to be used as needed

Under quiet classroom conditions, most teachers have enough natural volume in their voice to communicate effectively with a standard sized class. However, a number of acoustic factors (lively/noisy classes, reverberant room conditions, ambient noise from equipment and outside, hearing difficulties, etc.) can have a significant effect on clear, effective teacher/pupil communication.

The inclusion of a Soundfield System in the classroom will raise the teacher's voice above this ambient noise level, to give even voice coverage throughout the room and without the need to shout or raise one's voice.

What is a Soundfield System?

In it's most simple form, a Sound Field Voice Reinforcement System consists of the following components:

- Wireless microphone and receiver
- Amplifier
- Loudspeakers
- Connection Cables

However, due to the many differing conditions one may find within the classroom (type of classroom, size, number of pupils, ambient noise level, etc.), a Sound Field system can be designed and specified to give the best results for a given application, using a different number of speakers, different types of speakers, system positioning, inputs for AV equipment, etc.

Utilising our preferred infrared (IR) Soundfield System, there is a further logistical advantage to teachers over radio frequency (RF) Microphone systems. As IR systems are not frequency specific, the teacher can move from room to room without having to alter the microphone settings and interference between adjacent classrooms is negated.

SOUNDFIELD PACK A
standard classroom Infra-red soundfield system

Complete beltpack infrared system with chargers and batteries plus 2 extension sensors.

- 1 x Amplified flat ceiling panel speaker
- 1 x CD/Laptop wall plate
- 1 x Equipment support tray with safety bonds and clips
- 1 x Infrared belt pack
- 1 x Infrared Emitter/Microphone
- 1 x Infrared Receiver
- 2 x Infrared Sensor c/w 10m extension cords
- 1 x Charger for infrared belt pack c/w rechargeable batteries
- Connection cables, installation instructions and manuals

SOUNDFIELD PACK B
large classroom infra-red soundfield system

As PACK A but with extra ceiling panel speaker for extended coverage

- 1 x Amplified flat ceiling panel speaker
- 1 x Extension Panel speaker
- 1 x CD/Laptop wall plate
- 1 x Equipment support tray with safety bonds and clips
- 1 x Infrared belt pack
- 1 x Infrared Emitter/Microphone
- 1 x Infrared Receiver
- 2 x Infrared Sensor c/w 10m extension cords
- 1 x Charger for infrared belt pack c/w rechargeable batteries
- Connection cables, installation instructions and manuals

SOUNDFIELD PACK C
music/drama infra-red soundfield system

As Pack A but utilizing Pro panel speaker for dynamic audio performance such as music or drama classes.

- 1 x Amplified Pro Panel flat ceiling panel speaker
- 1 x CD/Laptop wall plate
- 1 x Equipment support tray with safety bonds and clips
- 1 x Infrared belt pack
- 1 x Infrared Emitter/Microphone
- 1 x Infrared Receiver
- 2 x Infrared Sensor c/w 10m extension cords
- 1 x Charger for infrared belt pack c/w rechargeable batteries
- Connection cables, installation instructions and manuals

SOUNDFIELD PACK D
wall mount speaker infra-red soundfield system

For applications where ceiling panels cannot be used.

- 4 x Wall mount Speakers
- Stand alone amplifier
- 1 x CD/Laptop wall plate
- 1 x Infrared belt pack
- 1 x Infrared Emitter/Microphone
- 1 x Infrared Receiver
- 2 x Infrared Sensor c/w 10m extension cords
- 1 x Charger for infrared belt pack c/w rechargeable batteries
- Connection cables, installation instructions and manuals

- Meets and exceeds the requirements of BS 5839 part 9
- Ideal for all disabled refuge, fire telephone and stadium marshal applications
- New Compact 1-8 line (expandable to 16) wall-mounting central control unit saves valuable desk and floor space in crowded control rooms
- New Type B stainless steel 'Disabled Refuge' outstations offer true duplex hands-free speech - flush, surface and weatherproof versions are available
- Type A 'Fire Telephone' outstations come in locking or non-locking red steel cabinets and offer true duplex speech - semi-flush, surface and weatherproof versions are available.
- 16-128 line wall/desk mounting central control equipment also available for larger systems
- Unique 'auto-learn' facility allows fast network set up
- All extensions can be named with user-defined text of up to 15 characters
- Fully monitored hardware and software
- System operates at 24 VDC
- In the event of mains failure, operation can be maintained for 24 hours (standby) and 3 hours (in use) using 2 x 12V 7 Ahr batteries
- Optional line tester allows cable faults to be checked prior to equipment connection
- Ideal for hotels, shopping malls, office blocks, transport terminals, banks, sports stadia, entertainment complexes, auditoria, etc.

Disabled refuge, fire telephone & stadium marshal applications

For most people, a simple instruction like "please leave the building by the nearest available exit" can be acted upon quickly and easily. But for wheelchair users, the disabled and infirm, this isn't always the case.

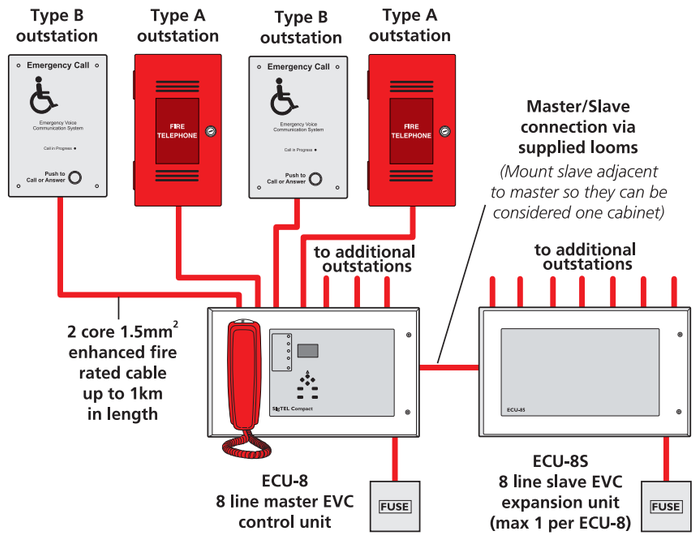
Current Building Regulations recognise this and insist that all new nondomestic buildings with more than one storey provide 'refuge' areas – relatively safe places where people who cannot easily use fire escapes and evacuation lifts can call for assistance and wait until help arrives.

Simple, effective two-way communication in these areas is essential, firstly to assist rescue teams in determining where assistance is required and secondly to reassure people help is on the way.

Communication systems in refuge areas are known as Emergency Voice Communication (EVC) Systems. Their design and installation is governed by BS 5839 part 9 and SigNET's recently expanded SigTEL system is now suitable for use in all types of EVC application – be it a disabled refuge, fire telephone or stadium marshal system.

Not only is the system incredibly easy to use, it is hugely cost-effective in comparision to others on the market.

A typical 1-16 line SigTEL Compact Emergency Voice Communication System


Type B outstation
Type A outstation
Type B outstation
Type A outstation
Emergency Call
FIRE TELEPHONE
Master/Slave connection via supplied looms
(Mount slave adjacent to master so they can be considered one cabinet)
to additional outstations
to additional outstations
2 core 1.5mm² enhanced fire rated cable up to 1km in length
SigTEL Compact
ECU-8S
ECU-8 8 line master EVC control unit
FUSE
ECU-8S 8 line slave EVC expansion unit (max 1 per ECU-8)
FUSE

call us now on: +44 (0) 1743 851313

sigtel - emergency voice communication system

About the SigTEL Emergency Voice Communication System

SigTEL comprises two different types of central control equipment - a new low-cost all-in-one wallmounting compact version which can handle up to 8 lines (expandable to 16) and a 16-128 line modular wall/desk mounting version. Both are typically located in a building's control room (or on smaller applications at a fire access point) where they allow management and/or the fire services to communicate via a telephone-style handset with the system's 'outstations'. Two types of SigTEL outstation are available - Type A (fire telephone-style) and Type B (handsfree intercom-style). Both types of outstation connect to SigTEL's central control equipment using two cores of 1.5mm2 enhanced fire rated cable of up to 1km in length.

Key System

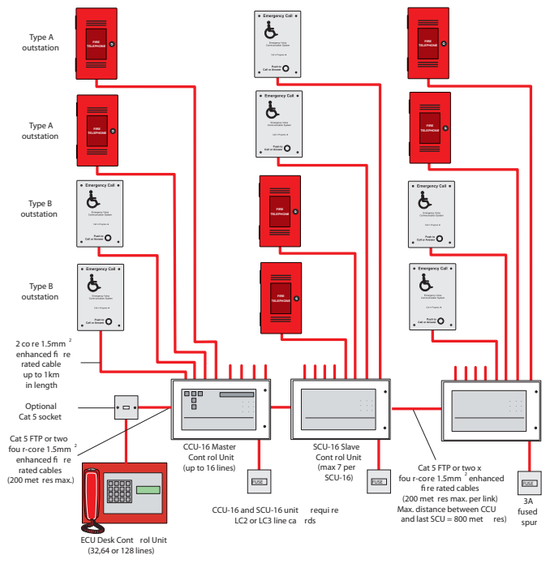
Compact 1-16 Line Central Control Equipment

Usually located in a building's control room or fire access point, our new ECU-8 8 Line Master EVC Control Unit is supplied complete with line cards, a handset and a backlit liquid crystal display. It allows the operator to communicate with up to eight Type A or Type B outstations (any mix). An eight line expansion unit (the ECU-8S 8 Line Slave EVC Expansion Unit) is also available to increase the system's outstation/line capacity to 16. Both units are designed to be wall-mounted.

Modular 16-128 Line Central Control Equipment

Our modular 16-128 line control equipment comprises one CCU-16 16 line Master Control Unit and up to seven SCU-16 16 line Slave Expansion Units. Line cards are not included but can be purchased separately. For every two Type A outstations connected, an LC2 2-Way Line Card is required and for every two Type B outstations, an LC3 2-Way Line Card is required. A separate ECU Desk Control Unit is also required to allow operators to communicate with the system's outstations. Three versions are available, the ECU-32, which can control up to 32 lines; the ECU-64 (up to 64 lines); and the ECU-128 (up to 128 lines).

A typical 16-128 line SigTEL Emergency Voice Communication System


Type A outstation
Type A outstation
Type B outstation
Type B outstation
2 co re 1.5mm ² enhanced fi re rated cable up to 1km in length
Optional Cat 5 socket
Cat 5 FTP or two fou r-core 1.5mm ² enhanced fi re rated cables (200 met res max.)
CCU-16 Master Cont rol Unit (up to 16 lines)
SCU-16 Slave Cont rol Unit (max 7 per SCU-16)
CCU-16 and SCU-16 unit requi re LC2 or LC3 line ca rds
Cat 5 FTP or two x fou r-core 1.5mm ² enhanced fi re rated cables (200 met res max. per link) Max. distance between CCU and last SCU = 800 met res)
3A fused spur
ECU Desk Cont rol Unit (32,64 or 128 lines)

Type A 'Fire Telephone' Outstations

Fire telephone and stadium marshal systems use 'Type A' telephone-style outstations. SigTEL's THS1-E Type A Outstations comprise a telephone handset in a lockable red steel cabinet (right). They are typically located at entrances and fire-fighting lobbies to allow fire marshals to communicate with building control during an emergency. Their housings have openings which allow the phones to be heard and they are designed to be surface or semi-flush mounted using the T-BEZ Bezel. A Type A outstation with a non-locking handle (the THS1-EH) is also available.

Type B 'Disabled Refuge' Outstations

Disabled refuge systems use 'Type B' handsfree intercom-style outstations. SigTEL's new EVC302 Type B outstations (right) offer true hands-free duplex speech and allow anyone in a refuge area to communicate with building control at the touch of a button and vice versa. Attractively finished in brushed stainless steel, they include connections for an optional induction loop system for the hard of hearing and a general purpose output that closes on activation of the unit for the optional connection of strobes, CCTV activation relays, etc. Flush (EVC302F) and surface (EVC302S) versions are available together with an optional weatherproof enclosure.

FiTT Line Tester

Allows cable faults to be checked and cleared prior to equipment connection, greatly simplifying system commissioning.

SigTEL Compact 1-16 Line Dial/Control Units

ECU-8	8 Line Master EVC control unit (needs 2 x NP7.2-12 batteries)
ECU-8S	8 Line Slave EVC expansion unit (max. 1 per ECU-8)
AFP385	Grey flush bezel for ECU-8 or ECU-8S

SigTEL 16-128 Line Control & Dial Units

CCU-16	16 line master EVC control unit (needs 2 x NP7.2-12 batteries)
SCU-16	(Requires ECU desk dial unit and LC2/LC3 line cards)
LC2	16 line slave EVC expansion unit (max. 7 per CCU-16)
LC3	2-way line card for Type A Outstations
SVMM	2-way line card for Type B Outstations
SVMM/C	Two message card for CCU (optional)
AFP385	Custom message card for CCU (optional)
ECU-32	Grey flush bezel for CCU-16 or SCU-16
ECU-64	32 line Desk control unit with handset and display
ECU-128	64 line Desk control unit with handset and display
ECUWMB	128 line Desk control unit with handset and display
Type A	Wall Mount Bracket for ECU-32, ECU-64, ECU-128
THS1-E/MK4	Fire Telephone Outstations
THS1-ET/MK4	Fire telephone EVC outstation, c/w handset & key
T-BEZ	Fire telephone EVC outstation, c/w handset & T-Bar
THS/MK4	Red flush bezel for THS1-E/MK4 and THS1-ET/MK4
Type B	Red desk mounted telephone ONLY
EVC302F	Disabled Refuge Outstations
EVC302S	Handsfree EVC outstation, stainless steel, flush
BF359/1	Handsfree EVC outstation, stainless steel, surface
	Weatherproof enclosure for EVC302F/S

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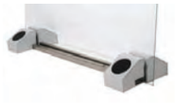
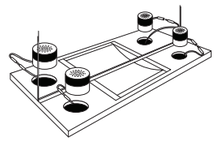
CAS XO2 SYSTEM



Highly compact audibility system, designed to be unobtrusive when installed in applications such as banks, turnstiles, post offices etc. The system includes a built-in induction loop amplifier to comply with the disability discrimination act.

System	2 way fully duplex
Speakers	all options use 2.5" full range driver units
Microphone	Electret condenser (directional)
Power	12 watts RMS
Freq. Res	20Hz – 2.5kHz
Dimensions (WxHxD)	200x60x150mm (main unit speaker dimensions see below) **There are install options available (order as below)**

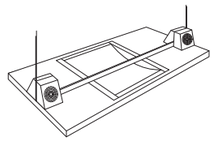
CAS XO2 FLAT COUNTER SYSTEM



Flush-mount speaker/mics with under counter amplifier and loop system.

grille	110mm dia
cut out	90mm dia
depth	105mm

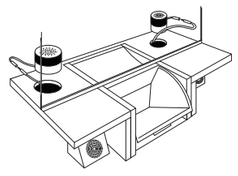
CAS XO2 SURFACE SYSTEM



Surface-mount sloping speaker/mic cabinets

width	120mm
depth	95mm
front height	35mm
rear height	70mm

CAS XO2 SPLIT LEVEL SYSTEM



For applications where counter space is at a premium. Flush-mount speakers on the public side and under-counter speaker and mic on the teller side.

flush-mount speakers

grille	110mm dia
cut out	90mm dia
depth	105mm

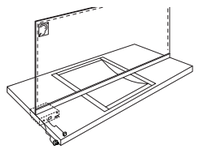
under counter speaker

width	120mm
depth	95mm
front height	35mm
rear height	70mm

separate mic

width	35mm
depth	20mm
height	30mm

CAS XO2 SPLIT LEVEL SYSTEM



High-level space-saving window-mount speakers and window-mount microphone.

window-mount sloping speaker/mic cabinets

width	120mm
depth	95mm
front height	35mm
rear height	70mm

mullion/window-mount microphone
40mm x 60mm

CAS XO2 WINDOW SYSTEM

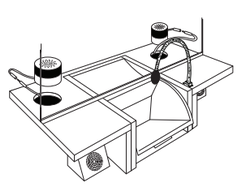
High-level space-saving window-mount speakers and window-mount microphone.

window-mount sloping speaker/mic cabinets

width	120mm
depth	95mm
front height	35mm
rear height	70mm

mullion/window-mount microphone
40mm x 60mm

CAS XO2 NOISY ENVIRONMENT SPLIT-LEVEL SYSTEM



Includes gooseneck microphone to reduce background noise being amplified.

flush-mount speakers

grille	110mm dia
cut out	90mm dia
depth	105mm

under counter speaker

width	120mm
depth	95mm
front height	35mm
rear height	70mm

gooseneck microphone

length	300mm
microphone	electret condenser (directional)

SENNHEISER E815SX & SJ

The e 815SX is a cardioid general purpose microphone ideal for vocal and instrument miking, karaoke and club

- Rugged metal body
- Excellent feedback and spillage rejection
- Good suppression of handling noise
- Balanced frequency response
- Warm transparent tonal response
- Silent ON/OFF switch
- 815SX has XLR - XLR connection cable (3 m)
- 815Sj has XLR – ¼" Jack connection cable (3 m)

SENNHEISER E825S

The e 825 S is a cardioid general purpose microphone ideal for vocal and instrument miking and club PA.

- Rugged metal body
- Excellent feedback and spillage rejection
- Good suppression of handling noise
- Balanced frequency response
- Warm transparent tonal response
- Frequency response 80 -15kHz
- Silent ON/OFF switch
- XLR - XLR connection cable (3 m)

SENNHEISER E835

The e 835 is a cardioid lead vocal stage microphone specially designed to perform under pressure.

- Rugged metal body
- Excellent feedback rejection
- High sound pressure handling capability
- Shock-mounted capsule provides excellent suppression of handling noise
- Uniform on- and off-axis response
- Cardioid pick-up pattern provides isolation from other on-stage signals
- Hum compensating coil
- High quality carry pouch
- Mic clip

SENNHEISER E840 & 840S

Professional cardioid vocal microphone developed to cut through high on-stage levels.

Famous Sennheiser model refined over 60 years

- Rugged metal housing
- Shock-mount capsule
- Frequency-independent directivity
- Highly insensitive to feedback
- Excellent vocal projection
- Hum compensating coil
- Delivery includes protective pouch and MZQ 800 microphone clip
- E840S has noiseless on off switch

SHURE SM58S

Switched version of Shure's legendary vocal microphone. Tuned to accentuate the warmth and clarity of lead and backing vocals as well as an ideal instrument mic for stage and studio.

Freq response	50Hz – 15kHz
Capsule	Dynamic
Impedance	150ohm
Weight	298g

Supplied with swivel adaptor and storage bag (no cable supplied)

WHARFEDALE DM2.0

Dynamic Microphone 3- pack.

The DM2.0 is a hand held dynamic microphone featuring a super-cardioid pattern to minimize feedback and effectively reject signals not originating in front of the microphone capsule.

- Unidirectional dynamic microphone with exceptional feedback rejection
- Neodymium magnet for high output low distortion clean sound
- Dent-resistant spring-steel grill
- Rugged cast Zinc alloy body ensure reliable performance in even the most demanding environments
- 3 x pack with carry case and mic clips
- Gold-plated XLR connector

AUDIO TECHNICA MB1K

A perfect introductory performance mic, the high-output MB 1k is designed for use as a lead, backup, or choral vocal microphone.

- High-output design for vocals that cut through the mix
- Unidirectional dynamic element design
- Rugged all-metal construction
- Hi-ENERGY® neodymium magnet for improved output and transient response
- Reduced handling noise thanks to anti-shock engineering
- Silent on-off operation thanks to MagnaLock™ switch design
- Corrosion-resistant gold-plated XLRM-type connector
- 5-year microphone warranty

AUDIO TECHNICA MB2K

The industry standard for affordable instrument microphones, the MB 2k features a unidirectional dynamic element design for outstanding off-axis rejection and feedback control.

- Smart-priced introductory microphone for amplified and acoustic instruments
- Tailored frequency response for optimal instrument reproduction
- Unidirectional dynamic element design
- Rugged all-metal construction
- Hi-ENERGY® neodymium magnet for improved output and transient response
- Soft-touch finish reduces mechanical noise
- Silent on-off operation thanks to MagnaLock™ switch design
- Corrosion-resistant gold-plated XLRM-type connector
- 5-year warranty

AUDIO TECHNICA MB3K

The Midnight Blues Series standout performance microphone, the MB 3k dynamic vocal microphone has an extended frequency response specifically developed to capture lead, backup, and choral vocals.

- Standout performance microphone for lead, back-up and choral vocals
- Extended frequency response for optimal vocal reproduction
- Unidirectional dynamic element design
- Rugged all-metal construction
- Hi-ENERGY® neodymium magnet for improved output and transient response
- Soft-touch finish for a secure, comfortable grip
- Silent on-off operation thanks to MagnaLock™ switch design
- Corrosion-resistant gold-plated XLRM-type connector
- 5-year warranty

AUDIO TECHNICA MB4K

A price/performance leader, the MB 4k cardioid condenser microphone is the Midnight Blues Series' introductory studio-quality microphone.

- Introductory studio-quality microphone—the clear price/performance leader
- Condenser design for studio-quality vocal and instrument applications
- Extended response for smooth, natural sonic characteristics
- Rugged all-metal construction and on/off switch
- Soft-touch finish for a secure, comfortable grip and reduced mechanical noise
- Battery/phantom operation for maximum versatility
- Corrosion-resistant gold-plated XLRM-type connector
- 5-year warranty

AUDIO TECHNICA PRO45

With robust construction and unobtrusive appearance, the PRO 45 and PRO 45W offer versatile sound-reinforcement solutions for speech, theatre, orchestra and choir sound reinforcement and recording. Available in Black (PRO 45) or white (PRO 45W).

- Hi-SPL handling is ideal for suspension over choirs and orchestras
- Wide-range condenser element with low-mass diaphragm for superior performance
- Self-contained electronics eliminate need for external power modules
- Flat, smooth frequency response
- 25' (7.6 m) cable permanently attached between microphone and XLRM-type connector

AUDIO TECHNICA PRO49Q & QL

The PRO 49Q quick-mount double-gooseneck cardioid condenser microphone is designed to plug into any standard XLRF-type surface or cable connector.

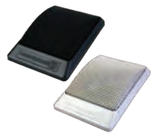
- Wide-range condenser element with low-mass diaphragm for superior performance
- Self-contained electronics eliminate need for external power modules
- Flat, smooth frequency response
- Quiet, fixed-placement long-life gooseneck
- Plugs into any standard XLRF-type surface or cable connector
- Overall length of 13.07" (332.0 mm)
- **Also available in a 16.46" (418.0 mm)-long version as PRO 49QL**

BEYER DYNAMIC MPC22

A discreet microphone with a half-cardioid response for integration within e.g. boardroom or conference tables. Can also be used for assistive hearing, telephone and video conferencing systems. Available in black, white or silver.

- Half-cardioid pattern
- High Gain before feedback
- Flat/wide range frequency response
- 50Hz-20kHz
- 200ohm impedance
- Requires 8-52V phantom power
- Weight approx 70g

BEYER DYNAMIC MPC66V



For use with discussion systems, sound re-inforcement, churches and situations where multiple mics need to be open. Available in black or white.

- Condenser mic
- Half spherical omni-directional response
- Very high speech quality reproduction
- 50Hz – 20kHz
- 124 ohm impedance
- Requires 8-52V phantom power
- Weight approx 240g

AUDIO TECHNICA PRO47T & TL

This double-gooseneck cardioid condenser microphone with integral power module and 5/8"-27 adapter-mount is ideal for boardroom, school, government, house of worship and other installed applications.

- Wide-range condenser element with low-mass diaphragm for superior performance
- Self-contained electronics eliminate need for external power modules
- Flat, smooth frequency response
- Quiet, fixed-placement, long-life gooseneck
- Direct mounts to any 5/8"-27 stand, or to included threaded mounting stud
- 9.8' (3.0 m) cable permanently attached between microphone and XLRM-type connector
- Overall length of 12.40" (315.0 mm)
- **Also available in a 15.79" (401.0 mm)-long version as PRO 47TL**

COMMERCIAL AUDIO CAS345

This low-profile omni-directional condenser boundary microphone is designed for clear, highly intelligible sound reinforcement, professional recording and teleconferencing in table, ceiling, or panel-mount applications.

- Designed for surface-mount applications such as high-quality sound reinforcement, professional recording and teleconferencing
- Low-profile element provides uniform omnidirectional polar pattern with 360° acceptance angle
- Mounts unobtrusively in table-tops, ceilings and wall panels
- XLRM-type output connector
- Rugged all-metal case with a two-layer steel mesh grille
- Requires 9V to 52V DC phantom power
- Available in two colors: black and white

BEYER DYNAMIC MPC65V

For use with discussion systems, sound re-inforcement, churches and situations where multiple mics need to be open. Available in black or white.

- Condenser mic
- Half cardioid response
- High Gain before feedback
- 60Hz – 20kHz
- 180 ohm impedance
- Requires 8-52V phantom power
- Weight approx 240g

BEYER DYNAMIC SHM22 F

Directional microphone on a metal plate for wall or ceiling mount applications. Ideal for interview rooms, assistive hearing applications and general purpose situations where a fixed mic is desirable.

- Cardioid polar pattern
- Elegant appearance
- Good rejection of ambient noise
- Wide, linear frequency response optimized for speech
- 65Hz – 20kHz
- Requires 8-52V phantom power

call us now on: +44 (0)1743 851313

AUDIO TECHNICA ATW251P

ATW251P - simple to set up and use VHF non-diversity Lapel/beltpack radio mic system. Ideal for presentation type scenarios.

- Non-diversity single-channel dual antenna system
- Fixed channel
- Available in three travelling frequencies173.800 MHz, 174.600 MHz and 175.000 MHz
- Adjustable squelch control
- miniature cardioid condenser lavalier microphone
- Includes clothing clip and windscreen
- Approximately 15 hours (high), 20 hours (low) battery life

AUDIO TECHNICA ATW701FP

ATW701FP UHF lapel/bodypack transmitter radio mic system.

Audio-Technica's 700 Series wireless delivers professional features and sound quality unheard of in its class. These easy-to-use wireless systems feature eight selectable frequency-coordinated channels, diversity operation for increased range/reliability, automatic frequency scanning, Tone Lock™ squelch and more. 700 Series systems come equipped with your choice of handheld, headworn, or lavalier microphones; or choose a system designed for guitar hookup. For multiple-mic applications, as many as eight systems may be used together.

- 8 selectable frequency-coordinated UHF channels
- Use up to 8 simultaneous systems—all channels compatible
- LED Channel display plus Antenna, AF Peak indicators
- Balanced XLR and unbalanced ¼" output connectors
- Tone Lock™ squelch system eliminates interference when transmitter is off
- Compact lapel mic included
- UniPak™ transmitter features: separate mic trim control, switchable high/low RF power, internal channel selector, multi-color battery/power indicator, AA operation

SENNHEISER FP12-EUK

The Freeport Presentation Set ensures maximum speech comprehensibility during lectures, presentations and theater performances. The system includes a bodypack transmitter, a diversity receiver and an inconspicuous clip-on microphone with an omni-directional pick-up pattern.

- 4 switchable UHF frequencies for interference-free reception
- Absolutely safe transmission
- Diversity Technology for highest reception quality
- Adjustable Squelch for undisturbed operation
- Receivers built in robust metal housing
- Dynamic processor for cristal-clear sound bodypack transmitter with omni-directional clip-on lapel microphone

AUDIO TECHNICA ATW251H

ATW251H - Simple to set up and use VHF non-diversity Headset/beltpack radio mic system. Ideal for hands free or dance/aerobic applications.

- Non-diversity single-channel dual antenna system
- Fixed channel
- Available in three travelling frequencies173.800 MHz, 174.600 MHz and 175.000 MHz
- Adjustable squelch control
- Headworn PRO8HEcW microphone
- Includes windscreen
- Approximately 15 hours (high), 20 hours (low) battery life

AUDIO TECHNICA ATW702F

ATW702F - UHF Handheld radio mic system

- 8 selectable frequency-coordinated UHF channels
- Use up to 8 simultaneous systems—all channels compatible
- Automatic frequency scanning
- Diversity operation for increased range/reliability
- LED Channel display plus Antenna, AF Peak indicators
- Balanced XLR and unbalanced ¼" output connectors
- Tone Lock™ squelch system eliminates interference when transmitter is off
- Handheld transmitter features: variable trim control, internal channel selector, multi-color battery/power indicator, AA operation

SENNHEISER FP35-EUK

The Freeport UHF Handheld Vocal Set includes a hand-held transmitter with a dynamic capsule, cardioid and a diversity receiver. The transmitter is exceptionally comfortable to hold and provides a lively and assertive sound.

- 4 switchable UHF frequencies for interference-free reception
- Absolutely safe transmission
- Diversity Technology for highest reception quality
- Adjustable Squelch for undisturbed operation
- Receivers built in robust metal housing
- Dynamic processor for cristal-clear sound
- Dynamic cardioid hand-held transmitter

SENNHEISER EVOLUTION G2 100 SERIES

The 100 Series is ideal for stage productions and presentations. Featuring 9 frequency banks with 4 frequency presets each for direct channel selection and are ready for immediate use.

- 1440 tunable UHF frequencies for interference-free reception
- Absolutely reliable transmission and extended range due to high RF output power
- High-quality true diversity reception
- Pilot tone squelch for eliminating RF interference when transmitter is turned off
- Automatic frequency scan feature searches for available frequencies
- Transmitter and receiver with rugged metal housings
- Receiver features user-friendly menu operation via backlit display
- Lock function avoids accidental changing of settings
- HDX compander for crystal-clear sound
- Transmitter and receiver feature "Low Battery" indicators
- Mute function for the transmitter
- Wide range of accessories adapts the system to any requirement

SENNHEISER EW112G2

This EW112G2 100 Series system is ideal for stage productions and presentations. The unobtrusive ME 4 clip-on lapel microphone is virtually invisible and has excellent feedback rejection. The extremely small SK100 G2 bodypack transmitter as well as the EM100 rack-mount receiver feature 9 frequency banks with 4 frequency presets each for direct channel selection and are ready for immediate use.

SENNHEISER EW135G2

The EW135G2 system is ideal for vocal applications. The SKM 135 G2 hand-held transmitter as well as the EM 100 G2 rack-mount receiver feature nine frequency banks with four directly accessible presets each - ready for immediate use.

SENNHEISER EW152G2

This system is ideal for hands-free vocal and speech applications. The extremely small SK 100 G2 bodypack transmitter and the EM 100 G2 rack-mount receiver feature nine frequency banks with four directly accessible presets each ready for immediate use.

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SENNHEISER 100 SERIES CONTINUED

SENNHEISER EW145G2

The ew 145 G2 has been designed for work on stage. The low feedback SKM 145 G2 handheld transmitter as well as the EM 100 G2 rack-mount receiver feature nine frequency banks with four directly accessible presets each – ready for immediate use.

SENNHEISER EW165G2

The excellent feedback rejection and wide dynamic range of the SKM 165 (condenser, super-cardioid) make this system ideal for live stage work. The SKM 165 G2 handheld transmitter with an electret condenser capsule as well as the EM 100 G2 rack-mount receiver feature nine frequency banks each with four directly accessible presets – ready for immediate use.

SENNHEISER EVOLUTION G2 300 SERIES

Additional features over the 100 series include 8 preset channels with preset naming. Display colour change when problem occurs. Battery status indicator, and rack mount kit included.

- Absolutely reliable transmission and extended range due to high RF output power
- High-quality true diversity reception
- Pilot tone squelch for eliminating RF interference when transmitter is turned off
- Automatic frequency scan feature searches for available frequencies
- Transmitter and receiver with rugged metal housings
- Rack mount included
- Transmitter with backlit display (lights up when a button is pushed)
- Receiver features user-friendly menu operation via two-colour backlit graphics display (green = OK; red = warning)
- Lock function avoids accidental changing of settings
- HDX compander for crystal-clear sound
- 4-step battery status display, also transmitted to receiver
- Mute function for the transmitter

SENNHEISER EW312G2 & 322G2

This system is ideal for theatre and presentation use. The clip-on microphone is virtually invisible. The extremely small SK300 G2 bodypack transmitter and the EM300 G2 rack-mount receiver feature nine frequency banks with eight directly accessible presets each – ready for immediate use.

- EW312 uses ME2 microphone (dynamic)
- EW322 uses ME4 microphone (cardioid condensor)

SENNHEISER EW335G2

The ew 335 G2 RF wireless system is an ideal choice for vocals and speech applications. It includes the SKM 335 G2 handheld transmitter with dynamic, cardioid microphone head and the EM 300 G2 rack-mount receiver. They feature nine frequency banks with eight directly accessible presets each – ready for immediate use.

SENNHEISER EW345G2

The ew 345 G2 RF wireless system is an ideal choice for stage work. It includes the EM 300 G2 rack-mount receiver and the SKM 345 G2 handheld transmitter with a dynamic, super-cardioid microphone head that cuts through the mix. Receiver and transmitter feature nine frequency banks with eight directly accessible presets each - ready for immediate use.

SENNHEISER EW365G2

The ew 365 G2 RF wireless system has been designed for professional stage use, setting new standards both in quality and sound. It includes the EM 300 G2 rack-mount receiver and the SKM 365 G2 handheld transmitter with a super-cardioid condenser microphone head. Receiver and transmitter feature nine frequency banks with eight directly accessible presets each – ready for immediate use.

AUDIO TECHNICA 1600 SERIES UHF RADIO MICROPHONES

key features of the 1600 series:

- 16 channel
- Automatic frequency scanning
- True Diversity operation selects the better signal from the two receiver sections, reducing dropouts
- Rugged metal half-rack receiver with soft-touch controls and LCD display featuring RF and AF metering
- Balanced XLR and unbalanced ¼" output jacks enable use with a wide variety of audio gear
- Includes rack-mount kit and detachable UHF antennas
- Operating frequencies E Band: 795.500 to 819.025MHz, F Band: 840.125 to 864.375MHz
- Dual independent RF sections, automatic-switching diversit
- Audio outputs Unbalanced: 52 mV (10k ohm load) ¼" jack Balanced: 32 mV (10k ohm load) XLRM

AUDIO TECHNICA ATW1661P
lapel/bodypack system

- ATW-R160 receiver, ATW-T161 UniPak® transmitter and AT829cW lavalier microphone.
- Body pack weight 90g requires 2 x AA alkaline batteries

AUDIO TECHNICA ATW1662
hypercardioid dynamic handheld

- ATW-R160 receiver and ATW-T162 handheld hypercardioid dynamic microphone/transmitter.
- Transmitter / mic weight 240g requires 2 x AA alkaline batteries

AUDIO TECHNICA ATW1661H
hypercardioid dynamic headset mic

- ATW-R160 receiver, ATW-T161 UniPak® transmitter and PRO 8HEcW hypercardioid dynamic headworn microphone.
- Body pack weight 90g requires 2 x AA alkaline batteries

SCANNER PRO SU16-UHF - 16ch uhf handheld system

- SU16 hand-held UHF diversity radio-microphone system offers the superior performance of UHF and the enhanced operation of switched diversity reception and is supplied complete as an outfit, with SCS1 road tough moulded ABS carry case
- Easy to use and operate, the SU16 features a comfortable, balanced, hand-held microphone housed in a high-impact ABS case with a premium dynamic capsule for exceptional headroom.
- The switch plate also incorporates a rotary switch for channel selection and a two stage gain switch enabling the SU16 to accommodate all vocal styles
- The Scanner SU16 receiver, used with all SU16 systems, is housed in a high-impact 1/2U ABS case featuring twin TNC antennae connections, balanced XLR, unbalanced jack outputs and variable squelch control
- The front panel features power on/off switch with indicator LED, RF signal strength indicator, diversity signal acquisition indicator, AF signal strength indicator, RF tester to aid free channel selection, channel selector and audio level output

SCANNER PRO SU16LVM - 16ch uhf lapel/bodypack system

- The Scanner SU16 belt pack transmitter is designed for use with the SU16LVM lavalier tie-clip microphone
- Housed in a high-impact ABS case featuring on/off switch with battery status indicator which shows battery condition at switch-on and monitors battery usage during operation to indicate impending battery depletion via a high-intensity LED
- Automatic switching is incorporated to accept either instrument or microphone inputs via the recommended accessory cables. The SU16 transmitter pack is also suitable for use with dynamic condenser or phantom-powered microphones
- A concealed control plate houses the channel selector switch and gain controls for instrument and microphone levels
- Omnidirectional condenser lavalier tie-clip microphone ideally suited for use by presenters, public speakers, in theatres, churches and applications where discretion and clarity are essential.

SCANNERPRO SU16HMA-OFT - uhf headset/bodypack system

- The Scanner SU16 belt pack transmitter is designed for use with the SU16HMA condenser headset microphone
- Automatic switching is incorporated to accept either instrument or microphone inputs via the recommended accessory cables. The SU16 transmitter pack is also suitable for use with dynamic condenser or phantom-powered microphones
- Dedicated condenser aerobics microphone featuring extra-secure lightweight, comfortable headband, cable clip, and super-flexible low-profile microphone boom with sweat-proof gland and moisture-resistant microphone capsule housing
- Housed in a high-impact ABS case featuring on/off switch with battery status indicator which shows battery condition at switch-on and monitors battery usage during operation to indicate impending battery depletion via a high-intensity LED
- A concealed control plate houses the channel selector switch and gain controls for instrument and microphone levels

TOA WT5810 - uhf receiver

- TOA Space Diversity technology
- 16 channel
- Triple squelch function suppresses noise
- Mixing input allows cascading of receivers
- 2 antenna
- Balanced XLR and unbalanced 6.3mm jack outputs
- Battery low indicator (transmitter)

TOA WM5220 - uhf handheld transmitter/mic

- Electret condenser mic
- Coverage 5 -120m
- Cardioid characteristics
- Optimised for vocals and speech
- 16 channels
- Low battery indicator
- Only 1 AA battery required
- Built-in antenna

TOA WM5320 - uhf beltpack/lapel mic

- Omni directional mic characteristics
- Coverage 3-120m
- 64 channel
- Noise Squelch
- Low battery indicator
- Only 1 AA battery required
- Built-in antenna
- 3.5mm jack plug

JTS US-902 SERIES - dual 16 channel UHF radio microphone system

- 16 channels
- Diversity technology permits minimum dropouts in the RF link
- Noise mute and pilot tone squelch circuit eliminate unwanted signal and noise interference
- Adjustable squelch level
- LCD display
- Equipped with balanced and unbalanced outputs
- Tuned antennas extend the effective range of the wireless link
- 1U rackmount metal housing
- rackmount kit included

JTS US-902D/A
- Includes 2 handheld mics

JTS US-902D/B
- Includes 2 beltpack transmitters with lapel mic

JTS US-902D/C
- Kit includes 2 beltpack transmitters with Aerobic quality headset mic

JTS US-903DC/A - dual channel pll handheld uhf system

- Preset 4 groups each of 16 UHF channels
- Kit includes 2 handheld mics, receiver and rack mount kit
- PLL synthesized technology ensures stable RF transmission and reception
- Diversity technology permits minimum dropouts in the RF link
- Lock-on function is provided
- LCD indicates channel, RF/AF level
- Equipped with 2 balanced and 1 unbalanced outputs
- Built-in charger for 4 pcs of AA battery
- PLL synthesized
- Extended dynamic range and smooth frequency response
- Advanced circuit and tone-key squelch

PROEL SIEM111 - in-ear monitoring system

- The SIEM-111 System features reliable JTS UHF PLL technology
- System comprises 1 x transmitter, 1 x beltpack, 1 x IE-1 in ear monitors, carry case
- 961 selectable UHF channels available. As many as 16 sets of SIEM-111T transmitters can operate on the same stage
- The system offers 4 groups, with each group having 16 compatible preset channels to choose from. This allows the monitor engineer to set up systems quickly and easily
- All metal case construction on both transmitter and receiver beltpack
- Advanced circuitry assures outstanding signal-to-noise ratio
- IE-1 and IE-6 earphones seal off the ear canal with JTS designed Dyna-Driver ear buds which reduce undesired stage noise and ambient sound levels
- 3 pairs of different sized Silicon sleeves included with the IE series earphones ensure a right fit for the users ear canal and comfort

PROEL SIEM111R - iem receiver pack

- Additional beltpack receiver
- Sturdy metal construction
- Up to 64 receivers can be used from one transmitter

PROEL IE-1 - in-ear stereo monitors

- Complete with protective case
- Comes with 3 pairs of silicon sleeves in different sizes

COMMERCIAL AUDIO DPM100

Desk-mounted dynamic paging microphone with momentary push to talk button.

Fitted with 1.5m straight cable terminating in a 5 pin din plug.

TOA PM660D

Elegant desk paging microphone.

- Push to talk switch
- Dynamic capsule
- Cardioid pattern
- Locking switch
- Low handling noise
- 600 ohm impedance balanced
- 2.5m cable with 5 pin din connector
- Freq range 100Hz – 10kHz
- Dimensions (wxhxd) 100x215x150mm

BOSCH PLE-1CS

Designed for use with the New Bosch Plena amplifier range.

The Plena tabletop microphone is a stylish, high-quality tabletop unidirectional condenser microphone, mainly intended for making calls in a public address system. Its heavy metal base and rubber feet ensures stability on any flat surface. The special design also allows the unit to be neatly flush-mounted in desktops.

- Stylish table-top unidirectional condenser microphone on a flexible stem
- Phantom powered by amplifier
- Momentary or toggle PTT-key for calls with priority contact
- Green LED, indicating microphone active

BOSCH PLE-2CS

2 zone call station designed for use with the New Bosch Plena amplifier range.

The PLE-2CD is a stylish, high-quality 2 zone tabletop unidirectional condenser microphone, to work in conjunction with the new PLE 2 zone Plena mixer amplifiers. Its heavy metal base and rubber feet ensures stability on any flat surface.

- 2 zone call station for use with 2 zone Plena mixer amps
- Stylish table-top unidirectional condenser microphone on a flexible stem
- Phantom powered by amplifier
- Momentary or toggle PTT-key for calls with priority contact
- Loop through option for up to 8 call stations
- Speech filter and limiter
- Selectable gain
- Output level control
- Green LED, indicating microphone active and zone selected

BOSCH LBB1946/00

Designed for use with the Bosch Plena amplifier range.

The Plena Six-zone Call Station is a stylish, high-quality call station with a stable metal base design, a flexible microphone stem, and a unidirectional condenser microphone. It can make calls to selected zones (one to six and all-call) in a public address system built around the LBB 1925/10 system pre-amplifier. In addition to tabletop use, the special design enables the unit to be neatly flush-mounted.

- Stylish six-zone call station, intended for LBB 1925/10 system pre-amplifier
- Unidirectional condenser microphone on flexible stem
- Six zone selection keys, all-call key, and momentary PTT-key for calls
- Selectable gain, speech filter, and limiter for improved intelligibility
- Multiple units can be daisy-chained

CLOUD CDPM4

Multi-zone call station mics for use with Cloud zoning products.

- 4 Zone Call station mic
- Multi-mic daisy chain facility *
- Ability to link up to 32 mics on 1 x system
- Simple CAT5, mic to mic cabling
- 'Paging Group' key assignment
- Selected zone, group or "Call all" paging.
- First come first served priority
- "Busy" indicator to show system in use.
- Any mic can be configured with ultimate priority.
- High quality cardiod capsule.
- Integral compressor.
- A choice of chimes.
- Internal sounder.
- A power supply is required for any extra mic when daisy chaining. **Cloud CPMPSU**

CLOUD CDPM8

Multi-zone call station mics for use with Cloud zoning products

- 8 Zone Call station mic
- Multi-mic daisy chain facility*
- Ability to link up to 32 mics on 1 x system
- Simple CAT5, mic to mic cabling
- 'Paging Group' key assignment
- Selected zone, group or "Call all" paging.
- First come first served priority
- "Busy" indicator to show system in use.
- Any mic can be configured with ultimate priority.
- High quality cardiod capsule.
- Integral compressor.
- A choice of chimes.
- Internal sounder.
- A power supply is required for any extra mic when daisy chaining. **Cloud CPMPSU**

JEDIA JRC10

For use with Jedia JPA1120A and 1240A mixer amplifiers

- Individual zone selection and all call facility
- Remote activation of digital messages (JDM10A see related products)
- Chime activation
- Can daisy chain up to 3 call stations
- Uses Cat5 datalink cable
- System busy indicator LED
- Priority over other call station facility
- Requires 1 x JRR10 data receiver for each amp used (1 supplied with each mic)

JEDIA JPTT10

- Ideal for priority input of JDM JPA (A) series and JMA pre-amp
- Can be used for any system with phaonton power facility
- Switchable chime activation control
- High quality robust gooseneck with heavy duty base
- High quality condenser microphone

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DENON PRO DNC100P

The DN-C100P is the entry level rack-mountable CD player. Designed specifically for use in commercial installations, from bars and clubs to education and the corporate sector, its key attributes include simple operation, reliability and excellent sound quality.

- Single disc player
- CD/CDR playback
- IR Control
- Optical Digital Output
- Program Playback
- Random Playback
- Repeat Playback (track & disc
- 3U with rack-mount kit

DENON PRO DNC200P

The latest in a long line of industry standard CD changers, the DN-C200P is a five disc carousel model with CD and CDR, MP3 and WMA compatibility, infra red control and random, program and repeat playback modes. Offering improved reliability, it's is ideal for long-term installation into retail and leisure environments.

- CD/CDR playback
- Playback MP3 and WMA (Windows Media Audio) files from CD-ROM
- Optical & Coaxial Digital Outputs
- IR Control
- Program Playback
- Random Playback
- Repeat Playback (track & 1 disc, all discs)
- 3U with rack-mount kit

MARANTZ CD5001P

Suitable for a wide variety of commercial installation applications, such as background music playback and telephone hold systems, the CD5001P replaces the popular CD5400P as the entry-level CD player within the Marantz Professional Studioline range. The specification includes CD-R/RW Playback (of discs burned on both CD recorders and in PCs), CD Text and Pitch Control (+/- 15 steps), together with high quality analogue and digital outputs, remote control and rack-mounting kit.

- Rigid metal chassis & solid metal front panel
- CD-R/RW Playback
- CD Text
- Pitch Control (+/- 15 steps)
- Optical and coaxial digital outputs
- High grade analogue outputs
- High quality headphone output with level control
- IR remote control
- 2U with rack mount kit

MARANTZ CD4001P

With a five-disc carousel, fully programmable playback plus random, repeat and scan modes, the CC4001P CD changer provides endless combinations of non-stop music for commercial installations. Its multi-read drive plays CD-Rs, CD-RWs and MP3 as well as conventional CDs, and features Digital Servo Drive for accurate reading and fast track access.

- Five disc CD changer with fast disc access
- Compatible with CD and CD-R/RW discs
- MP3 playability
- Multi-bit D/A conversion via CS4392 DAC
- Thick aluminium front panel
- Stable low resonance mechanism mounted on solid metal chassis
- Headphone output with adjustable volume
- Digital coaxial and optical outputs
- Auto Music Scan
- Random and program play
- RS232c and Flasher In ports for system integration
- Dedicated remote with direct disc access
- 3U with rack-mount kit

PIONEER PDM426

Cartridge based 6 play CD player with random and program play modes.

- 6 play CD player (cartridge load)
- Infra-red remote supplied
- Random play across all discs
- Repeat play, single track/all discs/all disc random/ programme tracks
- 32 track programmable across all discs
- 3U

BOSCH PLN-DVDDT

The Plena BGM source unit is the ideal high-quality source for background music (BGM) in public address systems. The unit consists of a DVD/CD-player and a digitally controlled FM/AM tuner in a compact 2U-high, 19" housing.

- Source unit for background music
- DVD/CD-player for video and audio
- Supports MP3, JPEG, and multi-format video outputs
- AM/FM tuner with 10 presets and digital control
- Simultaneous operation of player and tuner
- Separate outputs and level control for player and tuner
- Combined output DVD/CD and Tuner with player priority
- Remote control

WAVE SYSTEMS SP603

Designed to broadcast automatically and unattended a large volume of music and audio messages. Functioning off-line, the SP603 delivers unparalleled reliability, performance and flexibility.
You can prepare the tracks and audio messages on PC or Mac computer, link the SP603 to the computer using the USB2 cable provided and transfer the selected tracks onto the SP603's hard disk (recognised as an additional drive)

The same way, the files can be updated, moved, renamed or deleted. No limit on the number of files. The standard 40Go hard disk will store over 650 hours of music (MP3 files at 128 Kbps). A larger hard disk - up to 120 Go can also be installed.

The front face panel includes a keyboard to override the automatic mode, adjust the bass and treble settings, broadcast volume and mode (random, continuous, sequential or 24h).

A LCD displays the name, length and remaining time of the current track. The 19" -1U rack is easily integrated in an existing sound system.

- Playback of MP3 on 80GB IDE hard disk
- Bit rate : any from 8 up to 320 Kbits and VBRs (variable compression)
- Supports short and long file names (up to 255 characters)
- Digital setting of volume, bass and treble
- 255 programs to broadcast advertising, audio messages or musical style change, volume adjustment, start & stop
- Autoplay : starts reading automatically when the device is powered on - can be de-activated
- Broadcast mode : random, sequential, repeat, one track
- USB Password protected access
- LCD display : 2x16 characters : scrolling of file names, time, progress bar
- Update through USB 2.0 on PC (Win 98SE/ME/2000/XP) or MAC (MAC OS 9.x and later versions)
- Integrated clock for weekly programming of start and stop functions
- Different playlists for each day
- RS232 link for firmware update and remote control of the module

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audio source - hard drive / mp3

CAMPANELLE - church bell reproducer

The SCE is an electronic reproducer of the sound of 50 bells, with very high sound quality. It is equipped with an LCD graphic display of 8 lines of 40 characters each, with icons to display the currently active function. A simple to use manual section permits the control of swinging or pealing of 6 bells.

The programming is made easier by the use of menus and the graphic display permits user icons showing the state of the programming and the activation or de-activation of special functions.

Its storing capacity is 1000 melodies and programs and the programming by personal computer makes the managing of the device very simple.

- LCD display.
- Available models: 150W, 200W, 300W and basic (without power amplifier).
- Auxiliary input to amplify signals coming from recorders, compact, mixer outputs (microphones).
- Control of tones, volumes and monitor's volume.
- Sound fading, general and for single bell.
- Volume reduction at night-time.
- Possibility of music scale variations.
- Direct section for the immediate start of 7 melodies of frequent use.
- Connection to Standard Midi interface for the composition, recording and playing of melodies.
- Composition & memorization of melodies in a very simple way, with peelings & swinging of bells.
- Automatic & differentiated programming for periods of the year (eg: Summer, Winter, May, etc).
- Programming of fixed festivals (Christmas, Immaculate Conception, Assumption day) & movable festivals (Easter, first Friday of the month etc)
- Automatic programming of daylight-saving time.
- Automatic erasing of programs not to be repeated.
- Time-stroking in 22 different modes.
- Possibility of copying programs and melodies from & into another SCE reproducer.
- Programmable by personal computer, also via telephone, for easy installing, maintenance & use.
- Data retaining, unplugged, for over 30 days.
- Dimensions: LxDxH (mm): 480 x 130 x 215 (including detachable side flanges for rack)
- Weight: 11 Kg (basic, 150W and 200W) and 14 Kg (300W)

APART BGM3000 - mp3/cd/tuner

Compact 1U multi- audio source. Digital FM tuner, CD and USB MP3 player.

- Commercial heavy duty CD mechanism
- CD/CD-R playback
- Separate outputs for tuner and CD/MP3
- Auto Switch from CD/MP3 to FM for uninterrupted operation
- Detachable rack mounts included
- 40 second anti-shock buffer memory
- USB MP3 input front and back
- Infra-red remote control
- 10 preset FM tuner with Stereo/mono switch

audio source - tuners

DENON DNU100P

The DN-U100P builds on the success of Denon's long line of affordable easy to use tuners. Offering FM/AM bands, 100 presets and auto/manual tuning, the 2U rack mountable tuner is a simple and reliable solution for background music and radio monitoring applications.

- FM & AM band tuner
- 100 presets – store up to 100 stations in banks of 10 (eg.1-10, A-J)
- IR Control (supplied remote)
- Auto & Manual tuning
- RDS (radio data system) displays the station name etc
- RT (radio text) displays information such as track title if broadcast
- Last Function Memory: if power is lost when the DN-U100 is switched back on it will always return to the last tuned station
- 2U with rack-mount kit

APART PR1000

The APart PR1000 is a 19" AM/FM tuner. With only 1 rack unit height, it takes very little space. The PR1000 is a user-friendly & easy to install tuner. The SCAN UP/DOWN function will automatically search for the next radio station with sufficient signal strength. Up to 10 frequencies can be stored using the MEMORY function.

- Tuning Range : 520 - 1710 Khz
- External antenna : AM antenna (included)
- Signal to noise ratio : 50dB
- Output : RCA Cinch
- Power supply : 230V
- Remote control : IR (included) / Wired via contacts on Euroblock
- Dimensions (H x W x D) : 44 x 483 x 280 mm
- Weight : 3.1kg

APART PR4000

The APart PR4000 is a sturdy 19" 1U housing that contains 4 independent FM tuners.

This QUAD tuner is ideal for multi room systems and matrix systems. Above all, the PR4000 is a user-friendly and easy to install QUAD tuner. Each tuner can be controlled individually and can have 10 memory presets with scan facility.

The PR4000 can be controlled on the front panel or via the included IR remote control.

The output volume of each tuner can be controlled (-20 dB /+6 dB) via the attenuator at the back of the tuner. This way, the volume level of each tuner will be equal and will match the levels of other sound sources in your music system.
To optimise the sound quality and to avoid hum and buzz, the PR4000 has a FM antenna ground isolator build in.

- Tuning Range : 87.5 - 108 Mhz
- External antenna : FM 75 Ohm (Ground isolator included)
- Frequency range : 20 Hz - 15 kHz
- Usable sensitivity : 10 dBf
- S/N ratio: Mono/Stereo : 76 dB / 70 dB
- THD: Mono/Stereo : 0.5% / 0.7%
- Output : RCA Cinch
- Output level : Adjustable (FM: 900 mV / AM: 500 mV)
- Power supply : 230V
- Remote control : IR (included)
- Dimensions (H x W x D) : 44 x 483 x 280 mm
- Weight : 3.1kg

audio source - tuners

ACOUSTIC SOLUTIONS SP111DAB

- Superb value for money separates DAB tuner in silver.
- Digital audio broadcast radio tuner with FM
- High quality extruded aluminium finish
- Headphone output
- Analogue & optical outputs
- 4 dedicated station presets
- Favourite station memory facility
- Auto scan feature for local and national stations
- Manual tuning aid
- LCD status display panel
- Station data display on LCD panel
- Remote control supplied. (operates whole SP separate range)

JEDIA JTP10 - module for jedia mixer amplifiers

- Simple to fit
- Comes with aerial and all relevant connection
- 18 station preset memory
- 12 for FM and 6 for AM band
- Auto tuning
- Gain control
- Can be used on all Mobile, JPA, JPA (A) and JPS series amps
- Can also be used with JME2 and 4A module nests

JEDIA JCR10 - module for jedia mixer amplifiers

- Simple to fit
- Comes with aerial and all relevant connection
- 18 station preset memory
- 12 for FM and 6 for AM band
- Auto tuning
- Auto reverse cassette mechanism
- Gain control
- Can be used on all Mobile, JPA, JPA (A) and JPS series amps
- Can also be used with JME2 and 4A module nests

JEDIA JCDR10 - module for jedia mixer amplifiers

- Simple to fit
- CD player with cue/random/repeat and intro scan play
- Comes with aerial and all relevant connection
- 30 station preset memory
- 18 for FM and 12 for AM band
- Auto tuning
- Auto reverse cassette mechanism
- Gain control
- Can be used on all JPA, JPA (A) and JPS series amps (not Mobile series)
- Can also be used with JME2 and 4A module nests

19" rack - flat-pack

FLAT PACK SERIES

Simple, self assembly 19" enclosures flat-packed for cost-effective transportation and storage.

- High quality steel construction in black finish
- Highly rigid when assembled
- Front and rear mounting rails
- Slotted side panels for easy-mount rack support brackets
- Accepts front and rear-mounted doors
- Threaded base holes for castors
- Width: 522mm, Depth: 480mm (external dimensions)
- Full range of rack accessories

R8400-6

- 6U Frame
- 320.1mm height

R8400-8

- 8U Frame
- 409mm height

R8400-12

- 12U Frame
- 586.8mm height

R8400-16

- 16U Frame
- 764.6mm height

R8400-20

- 20U Frame
- 942.4mm height

R8400-24

- 24U Frame
- 1120.2mm height

R8400-28

- 28U Frame
- 1298mm height

POLYCARBONATE/STEEL SURROUND GLAZED DOORS

R8450-6

- 6U door
- 320.1mm heightt

R8450-8

- 8U door
- 409mm height

R8450-12

- 12U door
- 586.8mm height

R8450-16

- 16U door
- 764.6mm height

R8450-20

- 20U door
- 942.4mm height

R8450-24

- 24U door
- 1120.2mm height

R8450-28

- 28U door
- 1298mm height

19" rack - flat-pack (accessories)

VENTED/GRILLE STEEL DOORS

R8460-6

- 6U door
- 320.1mm height

R8460-8

- 8U door
- 409mm height

R8460-12

- 12U door
- 586.8mm height

R8460-16

- 16U door
- 764.6mm height

R8460-20

- 20U door
- 942.4mm height

R8460-24

- 24U door
- 1120.2mm height

R8460-28

- 28U door
- 1298mm height

BLANKING PANELS - steel powder coated black

R1385/1U - 1U blank plate

R1385/2U - 2U blank plate

R1385/3U - 3U blank plate

R1385/4U - 4U blank plate

VENT PANELS - steel powder coated black

R1279/1U - 1U vent panel

R1279/2U - 2U vent panel

R1279/3U - 3U vent panel

R1279/4U - 4U vent panel

RACK SHELVING

R1194/1UK

- IU steel shelf
- Up to 15kg load capacity
- Powder coated steel in black
- 272mm deep

R1194/2UK

- 2u steel shelf
- Up to 22kg load capacity
- Powder coated steel in black
- 368mm deep

RK322VMF - rack cooling fan assembly

- 3U high
- 3 fan units
- 230vAC

SIDE SUPPORT BRACKET R0856K - single support bracket

- Clips into R8400 series rack system
- Gives extra support for heavy items
- Powder coated steel in black
- 406mm deep

CASTOR SET R8480 - 4 piece castor set for R8400 rack system

- Steel insert pins
- Rugged plastic construction
- Locking brake lever
- Screws directly in to R8400 rack sockets

19" rack - pre-built

P SERIES

High-quality, fully assembled welded steel racks for rigidity.

Heights available:

- 515mm external depth (458mm deep internal fixing)
- All welded construction
- Powder coated steel in beige or black
- Ventilation slots at top and bottom of side panels
- Mounting runners front and rear as standard
- Complete range of accessories

P06 - 6U rack

- Height 322mm

P09 - 9U rack

- Height 455mm

P12 - 12U rack

- Height 589mm

P16 - 16U rack

- Height 766mm

P20 - 20U rack

- Height 944mm

P24 - 24U rack

- Height 1122mm

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19" rack - pre-built

GLAZED DOORS

High quality acrylic glazed locking front door for P Series racks

- Lockable (with 2 x keys)
- Acrylic safety glass with steel frame
- Factory fitted (order with rack)
- Colour as per rack

P.GD.6 - 6U glazed rack door

P.GD.12 - 12U glazed rack door

P.GD.20 - 20U glazed rack door

P.GD.9 - 9U glazed rack door

P.GD.16 - 16U glazed rack door

P.GD.24 - 24U glazed rack door

STEEL DOORS

high quality vented steel locking front door for P Series racks

- Lockable (with 2 x keys)
- Steel mesh with steel frame
- Factory fitted (order with rack)
- Colour as per rack

P.SD.6 - 6U vented steel rack door

P.SD.12 - 12U vented steel rack door

P.SD.20 - 20U vented steel rack door

P.SD.9 - 9U vented steel rack door

P.SD.16 - 16U vented steel rack door

P.SD.24 - 24U vented steel rack door

REAR PANELS

locking steel rear panel for P Series racks

- Lockable (with 2 x keys)
- vented steel panel
- Factory fitted (order with rack)
- Colour as per rack

P.RP.6 - 6U vented steel rear panel

P.RP.12 - 12U vented steel rear panel

P.RP.20 - 20U vented steel rear panel

P.RP.9 - 9U vented steel rear panel

P.RP.16 - 16U vented steel rear panel

P.RP.24 - 24U vented steel rear panel

ADJUSTABLE FEET - P.AF ADJUSTABLE FEET FOR ALL P SERIES RACKS

CHASSIS SUPPORTS - P.CS CHASSIS SUPPORTS (PAIR)

FAN KIT - P.FK.2 TWIN FAN UNIT FOR P SERIES RACKS

CASTORS - P.CAS,MD MEDIUM/HEAVY DUTY CASTOR SET

19" rack - wall mount

M SERIES

Leightweight construction and innovative wall hinge (option) make this pre-built wall racking system ideal for audio/visual, CCTV and security installations where floor space is at a premium. Heights available from 6 to 15U, glazed door included.

- High quality welded steel construction
- Two tone grey powder coated finish
- Lockable glazed acrylic door included (inc 2 x keys)
- Fully adjustable racking mounts
- Gland plate entry top and bottom
- Ventilation slots top and bottom of side panels
- **Optional hinged wall frame for easy access (order with rack)**

M.06GD 6U - wall-mount rack with glazed door

M.09GD 9U - wall-mount rack with glazed door

M.12GD 12U - wall-mount rack with glazed door

M.15GD 15U - wall-mount rack with glazed door

M.WF.066U - wall frame for M Series racks

M.WF.1212U - wall frame for M Series racks

M.WF.099U - wall frame for M Series racks

M.WF.1515U - wall frame for M Series racks

M SERIES REAR RACKING - extra racking can be fitted at the rear of the cabinet to support shelves and equipment.

M.RU.06 6U REAR RACKING STRIPS

M.RU.12 12U REAR RACKING STRIPS

M.RU.09 9U REAR RACKING STRIPS

M.RU.15 15U REAR RACKING STRIPS

For all cable trunking, fan kits, socket strips etc please call for quotation!

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accessories - microphone stands

COMMERCIAL AUDIO CAS026

Microphone stand with boom arm.

- Sturdy tripod base
- Height adjustable between 0.95m and 1.6m
- Adjustable boom arm (810mm long)
- Supplied with microphone holder thread adaptor
- Black finish

COMMERCIAL AUDIO CAS336

Desk mount microphone stand with boom arm.

- Sturdy yet compact 150mm cast iron base
- Telescopic stem with simple grip height adjuster
- 320mm – 460mm height
- Fully adjustable boom arm max 470mm
- Supplied with microphone holder thread adaptor
- Chrome and black finish

COMMERCIAL AUDIO CAS018

Short desk mount microphone stand.

- Sturdy yet compact 100mm cast iron base, black
- Rubber feet
- 60mm chrome stem
- Standard 5/8" thread

COMMERCIAL AUDIO CAS079

Compact telescopic desk-mount stand.

- Sturdy yet compact 100mm cast iron base, black
- Telescopic stem with simple grip height adjuster
- 230mm – 380mm height
- Standard 5/8" thread

COMMERCIAL AUDIO MS66

Heavy duty cast iron base mic stand.

- Sturdy cast iron base 250mm in black
- Telescopic stem with simple grip height adjuster
- 0.8m – 1.65m height
- Chrome finish stem
- Standard 5/8" thread

accessories - loudspeaker brackets

COMMERCIAL AUDIO TTL1

TTL1- Economical wall-mount brackets for loudspeakers

- Two piece mild steel bracket in black
- Fully adjustable with lock nut
- 5kg max load
- Supplied as a pair

COMMERCIAL AUDIO CAS0015

CAS015 – High quality adjustable speaker brackets

- High quality steel construction in black
- For wall or ceiling mount
- Multi-directional ball joint mount
- Safety cable
- 5kg max load
- Supplied as pair

COMMERCIAL AUDIO CAS095

CAS095- Wall-mounting 'Top-Hat' mount speaker bracket

- Mild steel construction in black
- 45° vertical adjustment with lockout nut
- For speaker cabinets with 'Top-hat' mount
- 25kg max load
- Supplied individually

COMMERCIAL AUDIO WBSI30

WBSI30 – Wall-mounting bracket for Sennheiser Infra-red radiators.

- Sturdy mild steel universal mounting bracket in black
- Designed for direct mount of SZI1015/SZI1015T radiators
- Accepts IZK20 mounting clamp for SI30 and SZI30
- Comes with 3/8th x ½" threaded bolt
- Supplied individually

accessories - connection cables

COMMERCIAL AUDIO CAS003

CAS003 – High quality 1.5metre XLR plug to XLR Socket

- Super low noise cable
- 2 core 7mm dia. screened
- Highly flexible and durable

COMMERCIAL AUDIO CAS015

CAS015 – High quality 3metre XLR plug to XLR Socket

- Super low noise cable
- 2 core 7mm dia. screened
- Highly flexible and durable

COMMERCIAL AUDIO CAS025

CAS025 – High quality 6metre XLR plug to XLR Socket

- Super low noise cable
- 2 core 7mm dia. screened
- Highly flexible and durable

COMMERCIAL AUDIO CAS239

CAS239 – High quality 12metre XLR plug to XLR Socket

- Super low noise cable
- 2 core 7mm dia. screened
- Highly flexible and durable

COMMERCIAL AUDIO CAS452

CAS452 – High quality 6metre XLR plug to 6.3mm mono jack plug.

- Super low noise cable
- 2 core 7mm dia. screened
- Highly flexible and durable

COMMERCIAL AUDIO CAS475

CAS475 – 4 core Neutrik Speakon ® connector lead 5 metre.

- 5 metre cable
- Professional speaker lead fitted with 4 pole(NL4FC) connectors
- Original Neutrik ® Connectors
- 4 core cable (4 x 1.5mmsq conductors)
- Optimal performance

accessories - connection cables

COMMERCIAL AUDIO CAS478

CAS478 – 4 core Neutrik Speakon ® connector lead 10 metre.

- 10 metre cable
- Professional speaker lead fitted with 4 pole(NL4FC) connectors
- Original Neutrik ® Connectors
- 4 core cable (4 x 1.5mmsq conductors)
- Optimal performance

COMMERCIAL AUDIO CAS481

CAS481 – 4 core Neutrik Speakon ® connector lead 15 metre.

- 15 metre cable
- Professional speaker lead fitted with 4 pole(NL4FC) connectors
- Original Neutrik ® Connectors
- 4 core cable (4 x 1.5mmsq conductors)
- Optimal performance

accessories - loudspeaker cable

COMMERCIAL AUDIO CAS422

CAS422 – Standard figure 8 loudspeaker cable.

- 0.75mm² 2 x core cable
- Polarity line indicator
- Current 6A max
- 2.5mm x 5.0mm cable thickness
- 100 metre drum

COMMERCIAL AUDIO CAS513

CAS513 – Heavy duty figure 8 loudspeaker cable.

- 1.32mm² 2 x core cable
- Polarity line indicator
- Current 15A max
- 3.0mm x 6.0mm cable thickness
- 100 metre drum

COMMERCIAL AUDIO CAS696

CAS696 – Heavy duty figure 8 loudspeaker cable

- 2.5mm² 2 x core cable
- Polarity line indicator
- Current 25A max
- 4.0mm x 8.0mm cable thickness
- 100metre drum

accessories - microphone cable

COMMERCIAL AUDIO CAS680

CAS680 – Screened microphone cable

- High quality individually screened cable
- 2 x 0.16mm core oxygen free conductors
- Red and black core sheathes
- Flexible PVC overall sheath in black
- 100 metre drum

accessories - cable for induction loops

CAS850 - 4 core cable for outreach plates

- Ideal for connecting Signet outreach plate systems
- 2 x twisted pairs
- Colour coded cores
- White flexible sheath
- 100 metre drum

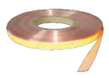
LOOP3/W - induction loop cable

- 100m drum of 1.5mm² , 32 strand loop cable

Loop4/W - induction loop cable

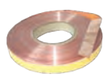
- 100m drum of 2.5mm² , 32 strand loop cable

Flat1005 - flat copper loop cable



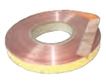
- 100 metre reel 0.5mm² insulated copper foil tape
- Ideal for use under carpets

Flat2005 - flat copper loop cable



- 100 metre reel 1.0mm² insulated copper foil tape
- Ideal for use under carpets

Flat3005 - flat copper loop cable



- 100 metre reel 1.5mm² insulated copper foil tape.
- Ideal for use under carpets.

accessories - connectors

COMMERCIAL AUDIO CAS413

CAS413 - Neutrik® NL2FX 2 pole speakon connector.

- High quality 2 pole cable connection
- Latch lock
- Integral cable reduction for 6-10mm cable

COMMERCIAL AUDIO CAS417

CAS417 - Neutrik® NL4FX 4 pole speakon connector.

- High quality 4 pole cable connection
- Latch lock
- Integral cable reduction for 6-10mm cable

COMMERCIAL AUDIO CAS569

CAS569 - Neutrik® 3 pin XLR plug.

- High quality Neutrik® connector
- Strain relief and cable protection
- Accepts cable up to 8mm

COMMERCIAL AUDIO CAS122

CAS122 - Neutrik® 3 pin XLR socket.

- High quality Neutrik® connector
- Strain relief and cable protection
- Accepts cable up to 8mm

COMMERCIAL AUDIO CAS627

CAS627 - 3 pin XLR plug.

- High quality connector
- Strain relief and cable protection
- Accepts cable up to 8mm

COMMERCIAL AUDIO AS657

CAS657 - 3 pin XLR socket.

- High quality connector
- Strain relief and cable protection
- Accepts cable up to 8mm

COMMERCIAL AUDIO CAS735

CAS735 – Neutrik® 6.3mm professional mono jack plug.

- Professional quality
- 6.3mm ¼inch Mono jack plug
- All metal construction
- Cable restrainer

COMMERCIAL AUDIO CAS254

CAS735 – Neutrik® 6.3mm professional stereo jack plug.

- Professional quality
- 6.3mm ¼inch Stereo jack plug
- All metal construction
- Cable restrainer

accessories - volume controls

CES AUDIO ATT1001PS

- Unique Low-profile design
- Hardware free fascia
- 12 position (inc. o□) "Smooth Click" rotary switch with 360 degree operation
- 100 watt 100 volt line
- Flush mount or surface mount via supplied back box
- High quality auto transformer for excellent frequency response, low insertion loss and reliability
- Priority relay bypasses attenuator in emergency or priority paging announcements
- High Impact ABS self extinguishing UL94V0 construction
- White (RAL 9016)

CES AUDIO ATT0201PS

- Unique Low-profile design
- Hardware free fascia
- 12 position (inc. o□) "Smooth Click" rotary switch with 360 degree operation
- 20 watt 100 volt line
- Flush mount or surface mount via supplied back box
- High quality auto transformer for excellent frequency response, low insertion loss and reliability
- Priority relay bypasses attenuator in emergency or priority paging announcements
- High Impact ABS self extinguishing UL94V0 construction
- White (RAL 9016)

COMMERCIAL AUDIO ATT10

- 10 watt 100v line
- Attenuation in 10 steps (from 0dB to -33dB, position 0 is OFF)
- 100V line audio transformer
- Flush mounting
- Standard single gang electrical faceplate
- Optional surface mount housing ATT200 see below

COMMERCIAL AUDIO ATT25

- 25 watt 100v line, flush mount volume control
- Attenuation in 10 steps (from 0dB to -33dB, position 0 is OFF)
- 100V line audio transformer
- Flush mounting
- Standard single gang electrical faceplate
- Optional surface mount housing ATT200 see below

COMMERCIAL AUDIO ATT50

- 50 watt 100v line, flush mount volume control
- Attenuation in 10 steps (from 0dB to -33dB, position 0 is OFF)
- 100V line audio transformer
- Flush mounting
- Standard single gang electrical faceplate
- Optional surface mount housing ATT200 see below

APART E-VOL100

- 100 watt, 100v line
- 24V priority relay
- 12 Attenuation steps
- Standard single gang electrical faceplate
- Optional Build-on box : E-MODON
- Dimensions (H x W x D) : 80 x 80 x 75 mm

APART E-MODON

surface mount white plastic back box for E-VOL100 volume control.

APART ATT200

plastic, surface mount back box for ATT10, 25 & 50.

APART 19-VOL650

- Rack mount
- 6 x 50 watt, 100v line
- 24v priority relay
- step by step attenuation - 11 steps + zero position

APART 19-VOL6100

- Rack mount
- 6 x 100 watt, 100v line
- 24v priority relay
- step by step attenuation - 11 steps + zero position

call us now on: +44 (0)1743 851313

accessories - install essentials

PAM10 - telephone interface

A Passive interface unit designed to allow connection to a telephone system.

- BT approved
- For use with 600ohm telephone system output
- Passive device
- ABS Enclosure
- 120 x 65 x 40mm (WxHxD)
- Weight 0.5kg

BALDWIN BOXALL BT8 - 8 zone phone extension interface

As BT5 system but with a 'store and forward' facility and 8 paging zone capability. In store and forward mode the user has the facility to record a message digitally then release it to the PA system when the handset is replaced or when a designated button is pressed. Zoning is via 8 separate contacts accessed again via designated telephone button.

- BT Approved
- Metal housing
- Mic or line output
- 8 x zone selection outputs
- Store and forward facility
- Option for chime (MIM33 chime board)
- 269 x 122 x 72mm (WxHxD)
- Weight 1kg

TU16 - 16 event 5 channel timer unit

Versatile 24 hour or 7 day, 5 channel timer unit for controlling external equipment via five individually addressable relay outputs.

- 16 events per day, 112 events per week
- 5 separate programmable outputs
- Latched or pulsed outputs
- Active output indication
- 40 year memory
- 230VAC/24vDC operation
- Illuminated display
- Anti-tamper key programming security
- Tough metal case
- 183 x 123 x 60mm (WxHxD)
- Weight 1.2kg

ELM1 - 100 volt line speaker system checker

- Simple to use
- No calculations required/ reads directly in watts
- Reduces costly time consuming failures
- 9V PP3 battery required
- +- 5% accuracy
- 75 x 140 x 40mm (WxHxD)
- Weight 0.5kg

BALDWIN BOXALL BT5 - telephone interface

Free standing self-powered telephone interface. Allows connection of a telephone system to a public address system via a conventional two wire telephone extension socket. The BT5 detects the ringing current then allows the user to broadcast the message.

- BT Approved
- Metal housing
- Mic or line output
- Option for chime (MIM33 chime board)
- 270 x 122 x 70mm (WxHxD)
- Weight 0.75kg

TPG5 - tone generator

Versatile tone generating unit which will operate wit most amplifiers. Operated by dry contact enclosures, giving a line level output. 4 tone (whoop, Twin tone, GMT pips, Continuous tone) 4 chime options via internal jumper.

- 4 preset tones
- 4 selectable chimes
- Contact closure activated
- Line level output
- 230vAC and 24DC operation
- 180 x 120 x 50mm (WxHxD)
- Weight 1.2kg

BOSCH PLN-6WTM

The Plena Weekly Timer is an accurate timer for use in public address systems. It is ideally suited for schools, shopping malls and all other venues that need regularly timed messages, signals or other controls. It is ideally suited for connection to the Plena Message Manager and Voice Alarm

- Two weekly programs
- 14 Chimes
- Six contact outputs
- Automatic summer winter time
- BGM level control
- Hold and pause function
- Unit can be programmed standalone or via PC
- Ideal partner for Plena Message Manager or Plena Voice Alarm for timed messages
- 440 x 312 x 48mm (WxDxH)
- 1U high 19" rack-mountable
- Weight 3kg

TOA ZM104 - impedance meter

- For easy and exact measurement of speaker impedances including long cable runs
- Battery operated for easy mobility up to 60 hours usage
- Oscillator generated 1kHz frequency
- 5 to 100kOhm range
- Complete with case and test leads

www.tsshropshire.co.uk

FORMULASOUND SENTRY

With strict noise regulations in force today no-one can afford to contravene the noise levels laid down by the local governing body.

The Sentry works in conjunction with a relay or contactor and usually controls mains power. But the Sentry is not limited to this function; any function that can be controlled by a relay or switch can be controlled by the Sentry.

The Sentry has been designed to help solve some of the environmental noise problems encountered in entertainment venues and working areas.

The Sentry has connectors provided to interface with a range of equipment, plus internally selectable options to make the system as versatile as possible.

Although its main application is to control mains power outlets in entertainment venues it is not restricted to this application. Basically any function that can be controlled by a relay or switch can be controlled by the Sentry. These may include disconnecting loudspeakers, switching passive attenuators to reduce system volume or acting as the trigger into an active attenuator system. It is microphone driven and has its own microphone built in to minimise tampering.

The Sentry also incorporates the facility to operate at two different sound level thresholds which may be selected manually, by a remote key switch or similar, or automatically by a time switch (switches not supplied). This allows a venue to operate at different levels at different periods of the day e.g. when near offices or shops.

- New case design provides easier connections via cable entry knock-outs and screw terminals.
- A choice of internal microphone (supplied factory fitted as standard) or external microphone
- Removable cover provides access to all connections and settings. Anti-tamper seals are provided.
- Anti-tamper microphone circuitry is incorporated with a front panel indicator.
- Dual mains voltage operation is standard (internally switchable).
- Provision to connect a security loop is provided. This may be required to detect open doors or windows that would impair the sound proofing of a building, etc.

APART AUDIOLOCK

This automatic decibel level controller makes sure that an adjusted decibel level never can be exceeded. The limiter will be connected between the mixer or pre-amplifier and the power amplifier. If the DJ wants to exceed the maximum adjusted level, the Audiolock will automatically and unobstrusively re-adjust. That makes the Audiolock the DJ-'s choice as "the best sounding" and "the most easy to work with" limiter.

On the front panel, the green LED will turn into red as soon as the DJ tries to exceed the maximum level. The Audiolock is sabotage proof, both electronically and mechanically.

The remote control allows you to adjust the maximum level with the 2-wired VCA control. Nevertheless, the maximum level, set on the central unit can't be exceeded!

- System : Automatic Level Controller
- Controls : Maximum input Level (-18dB/+12dB) - Gain (-35dB/+6dB)
- Measuring source : Audio Input signal
- Frequency Response : 10 - 25 kHz
- Signal to Noise Ratio : > 87 dB
- T.H.D. : Less than 0.05%
- Inputs : Stereo Balanced XLR (20 Kohm) +27dBv(!) Max input
- Output : Stereo Balanced XLR (100 Ohm)
- Noise Gate Trim : Off / -80 dB to -30 dB
- Remote VCA control : Off / -0 dB range (cabel 2 wire + shield)
- Power adapter 9V AC / 10 VA : 230V
- Dimensions (H x W x D) : 44 x 205 x 185 mm
- Weight (packed) : 2 Kg

INCLUDED:

- 5 numbered seals
- Remote control (locked) available LOCK-KEY

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